



DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

DAVID Y. IGE
GOVERNOR

MIKE MCCARTNEY
DIRECTOR

CHUNG I. CHANG
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: dbedt.hawaii.gov

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

Statement of
MIKE MCCARTNEY
Director

Department of Business, Economic Development, and Tourism
before the

SENATE COMMITTEE ON GOVERNMENT OPERATIONS

Thursday, February 11, 2021

3:00 PM

State Capitol, Conference Room 016

In consideration of

SB947

RELATING TO A BROADBAND AND DIGITAL EQUITY OFFICE.

Chair Moriwaki, Vice Chair Dela Cruz and members of the Committee. The Department of Business, Economic Development and Tourism (DBEDT) **supports** the intent and offers the following comments on SB947 that establishes the Hawaii broadband and digital equity office within the Governor's office and offers these comments:

- DBEDT appreciates the intent of establishing the Hawaii broadband and digital equity office in the Governor's office. Per our advice from the Attorney General's office, "The office of the governor is a constitutional office established by §1 of article V of the state constitution and is not a principal department of the state executive branch listed in this section (*that is*, section 26-4, HRS); thus, any agency that is not temporary and for special purposes cannot be validly placed within the office of the governor." Att. Gen Op. 96-1.
- It is important that the Hawaii broadband and digital equity office remains flexible to coordinate work with Federal agencies, state departments, community partners and the private sector. We feel this is best positioned in DBEDT.
- We prefer the language in SB1067.

Thank you for the opportunity to testify.

DAVID Y. IGE
GOVERNOR



CATHY BETTS
DIRECTOR

JOSEPH CAMPOS II
DEPUTY DIRECTOR

STATE OF HAWAII
DEPARTMENT OF HUMAN SERVICES

P. O. Box 339
Honolulu, Hawaii 96809-0339

February 9, 2021

TO: The Honorable Senator Sharon Y. Moriwaki, Chair
Senate Committee on Government Operations

FROM: Cathy Betts, Director

SUBJECT: **SB 947 – RELATING TO BROADBAND AND DIGITAL EQUITY OFFICE.**

Hearing: Thursday, February 11, 2021, 3:00 p.m.
Via Videoconference, State Capitol

DEPARTMENT'S POSITION: The Department of Human Services (DHS) appreciates the supports this administrative procedure and provides comments

PURPOSE: The purpose of the bill establishes the Hawaii Broadband and Digital Equity Office within the Department of Business, Economic Development, and Tourism.

Over the past ten months, DHS has collaborated with the Broadband Hui, a group of public and private sector entities, to increase Hawaii's digital capacity that will support the continuity of social connections, education, employment, and access to other essential services throughout the pandemic and beyond.

Through the work of the Broadband Hui, we have supported broadband infrastructure development in rural communities, provided digital devices for students and families, supported the accessibility of telehealth, provided information on low-cost internet options, and adopted a Digital Equity Declaration¹ to set a vision and goals for a more equitable digital future.

¹ See, <https://www.broadbandhui.org/>

Looking to that future, much work remains ahead. It will take an ongoing commitment and collaboration from public and private partners to deliver on the goals set forth to address Hawaii's digital inequities and to leverage the opportunities enabled by improved digital access. The creation of a dedicated state office to promote and facilitate these collective efforts will help ensure implementation of the vision and goals articulated in the Digital Equity Declaration are realized.

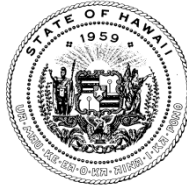
We recognize this measure may require a financial investment at a time the State is facing a budget deficit. There are federal and other resources available, and a dedicated office is a worthwhile investment to prioritize and address digital inequity through broadband access, digital literacy, and digitally-enabled societal systems and is a great opportunity to drive economic and social recovery, diversification, and resilience.

The purpose of this bill aligns with `Ohana Nui, the Department's integrated and multi-generational service delivery approach to reduce the incidence of intergenerational poverty, dependence on public benefits, and improve each individual's and family's social and economic well-being and potential.

DHS defers to the Department of Business, Economic Development, and Tourism, regarding administrative issues and the necessary appropriation.

Thank you for the opportunity to provide testimony in support of this measure.

DAVID Y. IGE
GOVERNOR



TESTIMONY BY:

JADE T. BUTAY
DIRECTOR

Deputy Directors
LYNN A.S. ARAKI-REGAN
DEREK J. CHOW
ROSS M. HIGASHI
EDWIN H. SNIFFEN

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
869 PUNCHBOWL STREET
HONOLULU, HAWAII 96813-5097

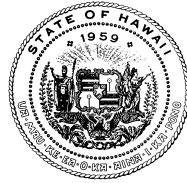
February 11, 2021
3:00 P.M.
State Capitol, Teleconference

S.B. 947
RELATING TO A BROADBAND AND DIGITAL EQUITY OFFICE

SENATE COMMITTEE ON GOVERNMENT OPERATIONS

The Department of Transportation (DOT) **supports** S.B. 947 that will establish the Hawaii broadband and digital equity office within the Governor's office. The bill includes appropriation to fund staffing for the new office. Furthermore, the creation of the Hawaii broadband and digital equity office could assist in continuing the work implemented during this administration.

Thank you for the opportunity to provide testimony.



STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. Box 3378
Honolulu, HI 96801-3378
doh.testimony@doh.hawaii.gov

**WRITTEN
TESTIMONY
ONLY**

**Testimony in SUPPORT of SB947
RELATING TO THE HAWAII BROADBAND AND DIGITAL EQUITY OFFICE.**

SENATOR SHARON Y. MORIWAKI, CHAIR
SENATE COMMITTEE ON GOVERNMENT OPERATIONS

Hearing Date: February 9, 2021

Room Number: N/A

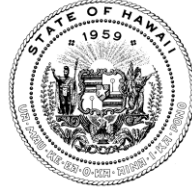
1 **Department Testimony:** The Department of Health (DOH) supports the establishment of the
2 Hawaii Broadband and Digital Equity Office within the Department of Business, Economic
3 Development, and Tourism.

4 Telehealth has been a strategic priority for the Department of Health for the past several years,
5 and its relevance has only become more pronounced with the pandemic stay-at-home orders.
6 Rural residents in particular, but also those in low socio-economic urban areas and the elderly,
7 have no means to access the internet. A coordinated state strategy to identify and solve inequity
8 will enhance all sectors, not just health.

9 Thank you for the opportunity to testify.

10 **Offered Amendments:** N/A.

11



DAVID Y. IGE
GOVERNOR

JOSH GREEN
LT. GOVERNOR

**STATE OF HAWAII
OFFICE OF THE DIRECTOR
DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS**

335 MERCHANT STREET, ROOM 310
P.O. BOX 541
HONOLULU, HAWAII 96809
Phone Number: 586-2850
Fax Number: 586-2856
cca.hawaii.gov

CATHERINE P. AWAKUNI COLÓN
DIRECTOR

JO ANN M. UCHIDA TAKEUCHI
DEPUTY DIRECTOR

Testimony of the Department of Commerce and Consumer Affairs

**Before the
Senate Committee on Government Operations
Thursday, February 11, 2021
3:00 p.m.
Via Videoconference**

**On the following measure:
S.B. 947, RELATING TO A BROADBAND AND DIGITAL EQUITY OFFICE**

WRITTEN TESTIMONY ONLY

Chair Moriwaki and Members of the Committee:

My name is Ji Sook “Lisa” Kim, and I am the Cable Administrator of the Department of Commerce and Consumer Affairs’ (Department) Cable Television Division. The Department offers comments on this bill.

The purposes of this bill are to establish: (1) the Hawaii Broadband and Digital Equity Office within the Office of the Governor; and (2) appropriate funds for establishment and staffing.

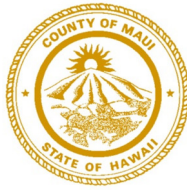
The global pandemic, triggering stay-at-home and social distancing orders, has underscored the critical need for universal broadband access for distance learning, telework and job training, telehealth and social services, and social and civic engagement. In response, the federal government is making more funding available for broadband infrastructure, equipment, and internet services, and the Administration is focused on creating a healthy statewide broadband network and digital equity.

The Department thus supports the creation of a broadband office focused on developing and implementing strategies and plans to increase broadband affordability, penetration, and competitive availability in the State, but it prefers the approach taken by administration measures H.B. 913 and S.B. 1067.

Thank you for the opportunity to testify on this bill.

Michael P. Victorino
Mayor

Sananda K. Baz
Managing Director



OFFICE OF THE MAYOR
COUNTY OF MAUI
200 S. HIGH STREET
WAILUKU, MAUI, HAWAII 96793
www.mauicounty.gov

February 10, 2021

TESTIMONY OF MICHAEL P. VICTORINO
MAYOR
COUNTY OF MAUI

BEFORE THE SENATE COMMITTEE ON GOVERNMENT OPERATIONS
Thursday, February 11, 2021, 3:00 p.m.
Conference Room 016

SB947, RELATING TO A BROADBAND AND DIGITAL EQUITY OFFICE

Senator Sharon Y. Moriwaki, Chair
Senator Donovan M. Dela Cruz, Vice Chair
Honorable Members of the Senate Committee on Government Operations

Thank you for this opportunity to offer testimony in **support** of **SB947**.

This bill establishes the Hawaii Broadband and Digital Equity Office within the Governor's office and appropriates funds for the establishment and staffing. Establishing this Office is crucial for the State to take advantage of federal funding for broadband access initiatives.

Broadband access brings opportunities for direct access to education and health care for rural residents who are otherwise forced to travel long distances for college courses and medical treatment. In addition farmers gain real-time access to vital information such as crop prices or weather forecasts, and marketing opportunities through high-speed networks. "Mom and pop" shops, or home-based businesses, also can expand their market and reach across the nation to bigger markets.

For those reasons, I urge you to pass **SB947**.



1001 Bishop Street | Suite 625 | Honolulu, HI 96813-2830
1-866-295-7282 | Fax: 808-536-2882
aarp.org/hi | aarphi@aarp.org | twitter.com/AARPHawaii
facebook.com/AARPHawaii

**The State Legislature
The Senate
Committee on Government Operations
Thursday, February 11, 2021
3:00 p.m.**

TO: The Honorable Sharon Moriwaki, Chair

RE: S.B. 947 Relating to a Broadband and Digital Equity Office

Aloha Chair Moriwaki and Members of the Committee:

My name is Keali'i Lopez and I am the State Director for AARP Hawai'i. AARP is a membership organization of people age fifty and over, with nearly 145,000 members in Hawai'i.

AARP Hawai'i supports S.B. 947 which establishes the Hawaii broadband and digital equity office within the Governor's office. The bill appropriates funds for the establishment and staffing for the Hawaii broadband and digital equity office.

The establishment of a dedicated state office to promote and facilitate efforts to increase Hawai'i's digital capacity is long overdue. The pandemic has amplified the urgency and importance to address the broadband inequities so that all Hawaii residents can benefit from accessing digital technology. The state will be able to prioritize broadband infrastructure development in rural communities, improve the accessibility of telehealth, and offer low-cost options for all residents. From students' distance learning in schools to the kupuna safely interfacing with their physician through telehealth consultation, the opportunities and benefits of a new digital world are endless. Having a broadband and digital equity office will help lead the State by working and collaborating with community partners in advancing technology in Hawaii.

Thank you very much for the opportunity to support S.B. 947.

Sincerely,

A handwritten signature in black ink, appearing to read "Keali'i Lopez".

Keali'i Lopez, AARP Hawai'i
State Director



**Testimony to the Senate Committee on Government Operations
Thursday, February 11, 2021; 3:00 p.m.
State Capitol, Conference Room 016
Via Videoconference**

RE: SENATE BILL NO. 0947, RELATING TO A BROADBAND AND DIGITAL EQUITY OFFICE.

Chair Moriwaki, Vice Chair Dela Cruz, and Members of the Committee:

The Hawaii Primary Care Association (HPCA) is a 501(c)(3) organization established to advocate for, expand access to, and sustain high quality care through the statewide network of Community Health Centers throughout the State of Hawaii. The HPCA **SUPPORTS** Senate Bill No. 0947, RELATING TO A BROADBAND AND DIGITAL EQUITY OFFICE.

The bill, as received by your Committee, would establish the Hawaii Broadband Office within the Office of the Governor to aggressively increase broadband affordability, penetration, and competitive availability in the State. The bill would also appropriate an unspecified amount of general funds for fiscal year 2021-2022, and the same for fiscal year 2022-2023, to establish two full-time equivalent positions exempt from Chapter 76, Hawaii Revised Statutes.

By way of background, the HPCA represents Hawaii Federally-Qualified Health Centers (FQHCs). FQHCs provide desperately needed medical services at the frontlines in rural and underserved communities. Long considered champions for creating a more sustainable, integrated, and wellness-oriented system of health, FQHCs provide a more efficient, more effective and more comprehensive system of healthcare.

Hawaii has long been at the forefront of integrating newer technologies into daily life. One example of this is Hawaii's Telehealth Law which has served as a model across the United States. Yet, it was only after COVID struck our islands that this law became fully integrated into daily life.

Today, it is common practice to ZOOM or SKYPE with your health practitioner instead of physically going to the provider's office for a visit. When COVID first hit our islands, many health providers had to limit the number of patients that could be serviced in-person because of a scarcity of Personal Protective Equipment, restrictions in the gatherings of groups, and the need for changes to the physical arrangement of examination rooms and other diagnostic facilities.

Testimony on Senate Bill No. 0947

Thursday, February 11, 2021; 3:00 p.m.

Page 2

For people with adequate broadband access, telehealth was a lifeline for the provision of essential primary health care services. Yet, health care facilities in rural areas experienced the same problems when COVID hit. They too had to limit the number of patients they could see. But because these communities lacked adequate broadband access, they were effectively cut off from primary care. Many were forced to bear their maladies until it became necessary to go to the emergency room.

The Governor's suspension of a statute that prohibits the use of standard telephonic service in telehealth has temporarily eased this inequity. For those without adequate broadband, at least for now, they are able to obtain basic primary care services over landline telephones. But that is neither adequate, tenable, nor fair to the thousands of citizens who lack broadband access.

Because of this, the HPCA views the lack of broadband access in rural areas as an issue of social equity. In this day and age, everyone should have equal access to health care. Telehealth was envisioned as the means of leveling the field between urban and rural areas. The lack of broadband ensures that urban and rural communities remain unequal.

As a member of the Broadband Hui, the HPCA urges your favorable consideration of this bill.

Thank you for the opportunity to testify. Should you have any questions, please do not hesitate to contact Public Affairs and Policy Director Erik K. Abe at 536-8442, or eabe@hawaiiipca.net.



Senate Committee on Government Operations

Date: February 11, 2021
 Time: 3:00 p.m.
 Where: Via Videoconference
 Conference Room 016

RE: **SB 947, Relating to a Broadband and Digital Equity Office**

Aloha mai e Chair Moriwaki, Vice Chair Dela Cruz, and members of the Committee.

The listed organizations and individuals **SUPPORT SB 947**, which establishes a Broadband and Digital Equity Office within the Office of the Governor.

Over the past ten months, our organizations have collaborated, each within their own ability, to increase Hawai'i's digital capacity, thereby supporting the continuity of social connections, education, employment, and access to other essential services throughout the pandemic. Through the work of the Broadband Hui, we have supported broadband infrastructure development in rural communities, provided digital devices for students and families, supported the accessibility of telehealth, provided information on low-cost internet options, and adopted a Digital Equity Declaration to set a vision and goals for a more equitable digital future.

Looking to that future, much work remains ahead. It will take an ongoing commitment and collaboration from public and private partners to deliver on the goals set forth to address Hawai'i's digital inequities and to leverage the opportunities enabled by improved digital access. The creation of a dedicated state office to promote and facilitate these collective efforts will help ensure the progress of the Broadband Hui continues and that the vision and goals articulated in the Digital Equity Declaration are realized.

We recognize this measure may require a financial investment at a time the State is facing a budget deficit. We believe, however, that addressing digital inequity through broadband access, digital literacy, and digitally-enabled societal systems is one of our greatest opportunities for economic and social recovery, diversification, and resilience.

For these reasons, we kindly request you **PASS SB 947**. Mahalo for the opportunity to testify.

(Please see names on the following two pages.)

	Name	Organization	Email Address	Zip
1	Allicyn Tasaka	Hawaii Workforce Development Council	Allicyn.h.tasaka@hawaii.gov	96813
2	Brad Kaleo Bennett	Auamo Collaborative	kaleobennett@gmail.com	96720
3	Brandon Makaawaawa	Pu'uuhonua O Waimanalo Community Network	bird.bran07@gmail.com	96795
4	Christine Sakuda	Transform Hawaii Government	csauda@transformhawaii.gov	96806
5	Curtis Kropar	Hawaiian Hope Org - www.HawaiianHope.org	Curtis@HawaiianHope.org	96817
6	Daniel C. Smith		smithdan@hawaii.edu	96782
7	David Miyashiro	HawaiiKidsCAN	david.miyashiro@hawaiikidscan.org	96734
8	Deborah Bond-Upson	Parents for Public Schools of Hawai'i	deborah@ppshi.org	96734
9	Eugene Chang		eugene.chang@ieee.org	96817
10	Greg Uchishiba		hotarukaba@gmail.com	96789
11	Jacqui Hoover	Hawai'i Island Economic Development Board	jhoover@hiedb.org	96743
12	Jacqui Hoover	Hawai'i Leeward Planning Conference	jhoover@hiedb.org	96743
13	Jared Grugett	Hawaii Dialogix Telecom	jgrugett@hawaiidt.com	96819
14	Jeanne Skog	Economic Development Alliance of Hawaii	jskog@skogasmussen.com	96793
15	Jenifer Sunrise Winter		jwinter@hawaii.edu	96821
16	Jonathan Chun	Kauai Economic Development Board, Inc.	jjc@kauai-law.com	96766
17	Katie Hendrickson	Code.org	katie@code.org	45701
18	Kendrick Farm	Association of Hawaiian Civic Clubs	farmk@hawaii.edu	
19	Kendrick Farm	O'ahu Metropolitan Planning Organization	farmk@hawaii.edu	
20	Lee Buenconsejo-Lum, MD	University of Hawaii John A. Burns School of Medicine	lbuencon@hawaii.edu	96813
21	Lihla Noori	Resilience Matters	lihla.noori@gmail.com	96730
22	Linda Puppolo	Maui County Workforce Development Board Office of Economic Development	linda.puppolo@mauicounty.gov	96793
23	Lorna Takehara Strand		lorna.strand@gmail.com	96701
24	Lynn Otaguro		lmotaguro@yahoo.com	96821
25	Mark Iha	Tangent Systems	mark@tangent.systems	96813
26	Mayrose Munar	Kaunalewa.org	mayrose@kaunalewa.org	96752
27	Nicole Velasco		nicole@nicolevelasco.com	96819
28	Noel Morin	Sustainable Energy Hawaii	noelgmorin@gmail.com	96720
29	Noel Morin	The Success Factory - NexTech Hawaii	nextechhawaii@gmail.com	96720
30	Noel Morin	Think BIG	noelgmorin@gmail.com	96720
31	Kamehameha Schools	Kamehameha Schools	bocampbe@ksbe.edu	96813
32	Peter G. Dames	Servco Pacific Inc	peter.dames@servco.com	96821
33	Philip J. Bossert Ph.D.	Hawaii Association of Independent Schools	pbossert@hais.us	96817

34	Rachel H Solemsaas		rachel.solemsaas@gmail.com	96720
35	Scott Uehara		scott.uehara@hawaiicounty.gov	96720
36	Sultan White	Office of Economic Revitalization	sultan.white@honolulu.gov	96814
37	Susan Tai		susantaikaneko@gmail.com	96814
38	Tharon LeBlanc	Michaels Managment	tleblanc@tmo.com	96819
39	Wayne Buente		wbuente@hawaii.edu	96815

SB-947

Submitted on: 2/9/2021 11:51:47 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Debra Greene	Testifying for Keep Your Power Hawaii	Comments	No

Comments:

Everyone deserves access to safer, faster, more secure fiber optics and hard wired ether net; however, this bill defines broadband as wired (fixed) and wireless (mobile). Wireless is not safe, not clean, not green and not sustainable. Hawaii cannot sustain more ugly, risky towers and antennas and the liability that comes with them. Fiber optics will bring faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, and harmful. Please omit the wireless aspect of this bill. A recent lawsuit against the FCC for its outdated wireless safety guidelines, one of many such lawsuits, included 11,000 page of evidence of wireless radiation harms. Read the story and the mountain of evidence here: <https://childrenshealthdefense.org/defender/landmark-5g-case-against-fcc-hearing-set-jan-25/> Again, please omit the wireless aspect of this bill.

SB-947

Submitted on: 2/9/2021 5:44:06 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Joli Johnston	Testifying for Keep Your Power	Comments	No

Comments:

This bill defines broadband as both wired and wireless. We do not need more toxic towers and antennas blanketing us in harmful wireless radiation. We want everyone to have equal access to safer, faster and more secure fiber optics, which is a part of broadband infrastructure. Fiber optic cables should be run to our homes, schools and businesses, NOT to the wireless towers and antennas. Fiber optics are faster, **safer**, more secure and more reliable connectivity than wireless. Wireless infrastructure is harmful, financially inefficient, and not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Please omit wireless!

SB-947

Submitted on: 2/9/2021 7:38:23 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Maha Conyers	Testifying for Mahana Weddings Maui	Oppose	No

Comments:

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. WE really don't want to have to use the wireless!

H

SB-947

Submitted on: 2/8/2021 2:42:42 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Gerard Silva	Individual	Oppose	No

Comments:

A Big wast of Money this is not need I you are trying to save money for the shore fall of revenue then why the hell are you craeting more jobs that will need more revenue that we do not need.

The Hawaii people are not going to pay for this. In fact we demaned that Governmant cut there force by 20% to make up for the shore fall witch you created with this Bull Shit Pandemic!

SB-947

Submitted on: 2/9/2021 8:43:42 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Maria Maitino	Individual	Oppose	No

Comments:

Dear Legislators,

We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless!

SB-947

Submitted on: 2/9/2021 8:50:03 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Katharine Morgan	Individual	Oppose	No

Comments:

Invest in fiber optics as priority over wireless technologies that are known to cause unnecessary negative impacts on health of people and the environment.

SB-947

Submitted on: 2/9/2021 8:55:52 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
brett sherwood	Individual	Comments	No

Comments:

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless!

SB-947

Submitted on: 2/9/2021 8:56:18 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Pat Beekman	Individual	Comments	No

Comments:

This bill defines broadband as fixed and mobile, meaning, wired and wireless. In today's world everyone should have access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. What we don't want or need is more toxic towers and antennas spewing out harmful wireless radiation. Fiber optic cables that run to our homes, schools and businesses are the way to go, *not* wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. PLEASE! NO WIRELESS!

February 9, 2021

SB947 (Comments)

SB1390 (Oppose)

SB851 (Oppose)

Aloha,

Please allow me to introduce myself. My name is Cece Doucette. I graduated from Waialua High and Intermediate School on Oahu, then moved to Boston for college where I eventually married the boy next door. We have stayed and raised our ohana here but I care deeply about what happens to Hawaii and my loved ones there.

You may wish to grab a cup of coffee or tea and settle in for a few minutes to read the following, it's really important.

Why I Care

When our daughters were in school, we kept hearing about the 21st century classroom. Our school district did not have the budget to afford all the new technology we were being told they would need to succeed.

So, some of us parents did fundraising to bring in wireless infrastructure, iPads, Chromebooks, smartboards, etc. Then an electrical engineer friend tipped me off there could be harm.

That's where my journey began. I did a cursory search and found studies showing no harm. But I dug just a little deeper, and found literally, thousands of studies, peer-reviewed, published all over the world showing a myriad of serious biological effects. Links provided below.

The Science

What these studies taught me was astounding. The electromagnetic fields (EMFs) of radiofrequency microwave radiation (RF) pulsed from wireless infrastructure and our own devices is linked to child and adult cancers, DNA damage, infertility, autism, ADD/ADHD, Alzheimer's and more in the long-term.

It hits the central nervous system and immune system especially hard so children and fetuses, whose systems are still under development, are especially vulnerable. The elderly, whose systems are on the decline, are heavily impacted too, as is anyone whose body is already trying to cope with an existing health condition.

In the short-term, many of us are experiencing the symptoms of microwave sickness but would never know to connect them to the constant pulses of microwave radiation coming at us all day every day from multiple sources. Most of our doctors have yet to be trained on microwave sicknesses and are increasingly frustrated that they can't help their patients.

Microwave sickness symptoms often include one or more of the following: sleep problems, headaches, nosebleeds, nausea, pain, skin abnormalities, ringing in the ears, cognitive impairment, learning disabilities, digital addiction, behavioral issues, anger, anxiety, depression, suicidal ideation and more.

This constant barrage of microwave pulses never gives our bodies a break to do proper cell repair and regeneration. The impacts are cumulative, and so over time we see a general decline in our health and that of the [planet's ecosystem](#) too. This radiation affects every living cell and was never safety tested before coming to market.

Please examine [Dr. Martin Pall's paper](#) which provides the science and mechanisms of harm, and refutes industry claims that there is no harm. It is a good summary to quickly come up to speed and includes the specific scientific studies showing each area of harm. The [Physicians for Safe Technology](#) website is also a good site to see the science by biological effect.

The Industry

As I did my due diligence, I kept thinking, "Surely, if this is as bad as the science indicates, someone must have our backs on this." Then Harvard published the report "[Captured Agency: How the Federal Communications Commission is Dominated by the Industries it Presumably Regulates](#)." In Captured Agency we learn the wireless industry is basically using the tobacco playbook.

The [World Health Organization](#) even recognizes the tobacco playbook and the relentless tactics used to suppress credible science, design their own science to show no harm, lobby to put laws in place to protect their interests, commandeer the media, and run highly successful campaigns to keep the public buying their toxic products.

Notice how when the industry speaks, they don't point to where the truth lies, in the actual scientific studies. They point to organizations, captured agencies which they control or whose words they twist to give the public and our public servants a false sense of security. When challenged with the scientific findings, they go into denial mode.

The CTIA's Letter to Hawaii County's Planning Committee

When the 5G ban was before the Hawaii County Planning Committee, Bethanne Cooley, from CTIA -- The Wireless Industry, submitted [this letter](#) and I suspect she or others may be submitting similar disinformation to you. All sources of radiofrequency microwave radiation emissions – be they utility “smart” meters, cell towers, small cells, routers and every personal wireless device – are toxic but there are safe alternatives already available.

Please know there is much more to the story with the authoritative quotes Ms. Cooley submitted to Hawaii County. She wrote includes:

- *“... there is no convincing scientific evidence that the weak RF signals from base stations [cell towers] and wireless networks cause adverse health effects.” – World Health Organization⁵*

Note: That is an out-of-date citation. The U.S. National Toxicology Program's \$30M study has concluded "clear evidence" radiofrequency radiation causes cancerous tumors and DNA damage. "Clear evidence" is the highest public warning they can give. The industry tried to spin it that you need more than one study to prove an outcome. Then Italy's Ramazzini Institute completed another large study corroborating the U.S. findings. You can examine both yourself [here](#).

Further, the World Health Organization in 2011 classified RF as a Group 2B Possible Human Carcinogen. We should have invoked the Precautionary Principle then but again, heavy industry influence at all levels, [even at the WHO](#), prevented science and common sense from prevailing. Since the evidence now shows it [should be reclassified as Group 1: Carcinogenic to Humans](#), the [WHO is reopening their investigation in 2020](#).

- *“Based on our ongoing evaluation of this issue, the totality of the available scientific evidence continues to not support adverse health effects in humans caused by exposures at or under the current radiofrequency energy exposure limits.” – The Food and Drug Administration (FDA)⁶*

Note: The FDA, nearly 20 years ago, commissioned the U.S. National Toxicology Program cancer study. There is new FDA leadership today. Dr. Jeffrey Shuren, who is now in charge of radiofrequency, should have taken the "clear evidence" of cancer and DNA damage finding and translated that into policy to protect the public. Instead, he told the FCC to continue with business as usual. It turns out [Dr. Shuren's wife is a partner in a law firm that represents the wireless industry](#) so he has a very serious conflict of interest.

- *“... although many studies have examined the potential health effects of non-ionizing radiation from radar, microwave ovens, cell phones, and other sources, there is currently no consistent evidence that non-ionizing radiation increases cancer risk in humans.”—National Cancer Institute⁷*

Note: There will never be "consistent" evidence because the industry funds its own studies designed to show no harm. Bear in mind that one study showing no harm does not cancel out another that shows harm, although the industry would like you to believe that. The studies that show harm, still show harm. And there are, literally, [thousands of them](#).

Cancer aside, it was the sperm studies that got me on my feet when I first started reading the [scientific literature on reproduction](#). They have taken male human sperm and exposed it to a laptop with the antennas on, and it changed the DNA, slowed the motility of the sperm, and caused far fewer sperm to be viable -- in just four hours of exposure. There are other studies on women's reproductive outcomes too, including fertility issues and higher rates of miscarriage with exposure to wireless radiation.

I have two daughters, and we had given them laptops when they went to high school. Each had bought their own cell phones too, and there was wireless infrastructure all around them at home, in school and in the community. I realized we had immersed our children and ourselves in unrelenting 24x7x365 toxic electrosmog and that's when I began working to fix this issue.

Energy Consumption & Sustainability

Did you know wireless technology consumes [10x the amount of energy](#) than the better hard-wired solutions? A Greenpeace analyst indicated if the wireless industry were a country, it would be the fifth or sixth largest consumer of energy in the world.

A word on sustainability: being in Hawaii, we know natural disasters happen like tsunamis. What happens to wireless infrastructure in a tsunami? Look at Hurricane Maria where the cell towers all went down and Puerto Rico was incommunicado for months. Look at the wildfires in California. Any telecommunications equipment above ground, like cell towers and small cells, are gone and the public is stranded.

Fiber-optics, high speed cable and advanced copper underground are much more sustainable solutions. It was the industry that convinced our municipalities to let them get out of maintaining the reliable copper landlines. Here in Boston, when we lost power in blizzards, we still could call for emergency services on our copper landlines. But not anymore. We need electricity now for our phones, even our landlines, to work because they've bundled them into the wireless

infrastructure. When the power goes out, once our batteries run out, we now have no way to even call for emergency services anymore.

Legal Recourse

The industry charged us all on our phone bills for years to build out the right solution: hard-wired fiber-optics or high-speed cable/copper to the premises where we can pick up the signal and connect indoors via Ethernet cables and [adapters](#) to our devices.

Then they failed to deliver the safe and sustainable solution, and instead took those funds and started spinning up wireless because it's cheaper to install and highly profitable. Thankfully, the [IRREGULATORS vs. FCC](#) lawsuit has freed up our states to recoup those funds so we can transition to safe hard-wired technology.

The FCC was asked to revisit their RF exposure limits and completely ignored the scientific evidence submitted showing harm. The Environmental Health Trust and Children's Health Defense are now [suing the FCC for dereliction of duty and negligence](#). This is a groundbreaking lawsuit, and [oral arguments](#) were held on January 25th. The judges were not impressed with the FCC's failure to protect the public and we await their ruling.

Legislative Action

Massachusetts led the nation last session with [20 bills addressing man-made radiation](#), and even with the pandemic and racial justice priorities, our legislators saw fit to report several of these bills out of committee favorably. We move like molasses in Massachusetts though and are, perhaps unwittingly, deep in bed with industry.

New Hampshire and Oregon, however, are operating like we thought our democracy should.

Once citizens informed Oregon Senator Anderson of the wireless radiation issue, she took action. She is a retired public health nurse who quickly understood the science and risks, and passed an [emergency law](#) to require the Oregon Health Authority to investigate the non-industry funded science.

In New Hampshire, a citizen who became very ill from wireless radiation exposures spoke with her State Representative about this issue. Rep. Patrick Abrami is an engineer and had only been taught you have to have heat from a wireless antenna before you can have harm. But he listened, and then he investigated. When he read the science showing extreme harm at non-thermal levels of RF exposure, he had a major WOW moment.

Then he wrote a bill which he asked me to review. Next, he drove down from NH to MA and we spent the afternoon at my kitchen table helping him to connect the dots further. Then he beefed up his [bill with very pointed questions](#) that demand answers, including why the [insurance industry](#) has long recognized RF as a leading risk and put exclusions in their policies. They don't cover damages, and that leaves our towns liable. He also calls out the FCC for ignoring the science and allowing radiation limits that are 100 times higher than in other countries

The retired President of Microsoft Canada, Frank Clegg, is a whistleblower on the wireless issue, see his [8-minute PSA](#) on 5G here. I introduced him to Rep. Abrami, and Mr. Clegg flew in to testify, along with leading scientist [Dr. Paul Heroux](#) from McGill University. I came up from MA to testify too along with several well-informed NH residents. We got that bill passed by the Senate, the House and the Governor in just seven months, and last fall NH formed a Commission to investigate the health and environmental impact of EMFs.

So, for the first time in U.S. history, this issue is being truly addressed with open dialogue as expert scientists, doctors, engineers and industry representatives testify before the Commission. The CTIA has a seat on the Commission so all stakeholders are present, and it is filled by Bethanne Cooley, the same woman who has sent a letter(s) to Hawaii County. So, she knows full well there are very serious health risks. Dr. Paul Heroux is also on the Commission, along with bill co-sponsor Senator Tom Sherman who is a medical doctor who is seeing the fallout in his practice. There are members from academia, public health, environmental health, business, and the attorney general's office too.

The groundbreaking Commission's findings were reported out on November 1, 2020, including a preference for fiber-optics to the premises and informing the public about the risks of wireless radiation. They also expose the conflicts of interest between the wireless industry and our federal agencies. That is why it is so critical for Hawaii and other state legislatures to do everything in your power to ensure safe, responsible technology.

Recommendation for Hawaii

When you get overwhelmed by all of the mixed messages you will hear, remember to redirect your focus to the non-industry funded [science](#). That is the only true source of facts, and the independent science is very clear that wireless is a toxin, regardless of what the industry tries to convince us of otherwise through the media or legal pressure.

Nobody in Hawaii should be exposed to the radiation from utility “smart” meters, cell towers, small cells, super highways or any other wireless device. Not you, nor the ratepayers.

The Good News

The good news is there are many solutions available right now to help us transition to safe, fast, reliable technology:

- **For Our Towns:** The policy book [Reinventing Wires: The Future of Landlines and Networks](#) provides a roadmap for our municipalities to understand the issues and begin plans for better technology. The award-winning film [Generation Zapped](#) is an excellent 74-minute documentary that beautifully illustrates the issue and solutions. We have shown it at the Massachusetts State House, the National Institutes of Health, many community libraries, and it was selected as part of the United Nations Film Festival. It would be a great way to quickly educate your team and community to start a meaningful conversation. 5GCrisis.com has a terrific [tool kit](#) with a sample municipal ordinance you may wish to consider adopting in the short-term.
- **For the Public:** The non-profit [Wireless Education](#) has already built quick affordable on-line training to bring the public up to speed. The [Schools & Families Course](#) and the [Corporate Course](#) only take about a half-hour on-line to complete. Each distills the science, risks, what other countries are already doing to protect their public, and medically recommended best practices for safer technology use. A handy tip sheet with device-specific reminders is provided at the end. Folks could do this on their lunch hour today and have a good understanding of the issue and how to protect their families. I helped to build the courses and would be honored to grant you access to review the content. Please just let me know.
- **For Public Health:** I helped the Massachusetts Department of Public Health write EMF fact sheets which can be updated and adapted for Hawaii. We created a [general](#) one, and one for [schools](#). We were told the public would be informed in three months. That was four years ago, and likely due to conflicts of interest with industry, they have [yet to be released](#).
- **For Health Care Professionals:** We convened the first major U.S. medical continuing education [EMF Conference](#) in November in California. We brought together leading experts from around the world to teach doctors, nurses, first responders and others to recognize, diagnose, treat and prevent microwave illnesses. We just completed the [2021 conference](#) on Sunday, and videos will soon be available so now all health care professionals have the opportunity to be professionally trained.
- **For Academia:** Dr. Paul Heroux at McGill University and other experts already have curriculum built to train engineers, physicists, technologists

and others on the non-thermal effects so they can begin designing technology that is biologically safe. Swisscomm, for example, has long held a patent for eco-mode wi-fi, which keeps everything in sleep mode and no RF signals are emitted unless called upon for a connection. Here in the U.S. right now, our technology beacons wireless signals at billions of cycles per second all the time non-stop whether anyone's using a device or not. Our engineers have simply not been tasked with creating safe technology. It's not rocket science, it can be done if we give the industry the nudge to produce it.

- **For Legislators:** Please take emergency action to adopt the NH bill to put public and environmental health over corporate interests. NH is doing the hard work right now so others will quickly be able to follow in their footsteps.

In Closing

Time and again, I hear from people with whom I've spent an hour sharing information, that they decided to turn off all of the antennas in their wireless devices at night and turn off their router too. They're grateful they can still use their clocks, alarms, camera and any downloaded books, music, etc., in airplane mode.

They come back and say they had the best sleep they've had in years, finally sleeping all the way through the night again! Children's behavior issues often go way down too when their bodies can properly rest and repair during sleep if there are no microwaves pulsing at them all night long. Headaches, nosebleeds, anxiety, depression, fatigue, brain fog, pain frequently begin to resolve too but if there are utility "smart" meters pulsing at them near their beds, or if the RF from the utility meters has hopped onto the house's wiring or pipes, then they can get no relief.

Martin Luther King, Jr., taught us that meaningful change happens through three channels: the public wakes up and speaks up, the courts hold the guilty accountable, and public policy is brought current.

You are addressing the wireless radiation issue at a terrific point in time, as critical mass is now happening in all three areas. The proverbial wheels are coming off the bus for the wireless industry and they know it.

I hope you will do everything in your power to stave off any further wireless buildout in Hawaii, including more cell towers, small cells and utility meters for electric, solar, gas and water. Might the industry challenge you? Yes, and other municipalities recognize there is legal risk too. It's all part of the process. But what's the alternative? Radiate our ohanas with a small cell at the curb outside our homes and smart meters pulsing 24x7? Allow [5G for the Internet of Things](#)

[\(IoT\)](#) which will put an RF antenna in just about every product you purchase so the industry can harvest our usage data to sell to others?

Burlington, Massachusetts pulled together a town-wide committee with members from all of their boards, and crafted a [small cell policy](#) that had Verizon withdrawing their small cell applications. There are ways around this and I can put you in touch with the municipal leaders in Burlington. Other municipalities have been contacting them too.

The largest water district in the nation, after much education by scientific experts, recently put their smart meter program on hold indefinitely. See [here](#) for details.

For today, choosing safe non-RF-emitting technology with utility metering is a good first start. Your opt-in program was a good step in the right direction, and was heralded as an example to emulate across the U.S. and internationally.

Prohibiting further buildout of wireless infrastructure for cell towers, small cells and other technologies would be another important step. Bringing safe, fast, reliable, sustainable fiber-optics to the premises is a much better fiscal and environmental solution.

Another good step is to provide education to the public right now via the above Generation Zapped screenings and Wireless Education courses so they can take control of their existing radiation emissions while you develop long-term plans for safe, sustainable community-level technology infrastructure.

You are the customer and if you ask for it, the industry will deliver safe, responsible hard-wired solutions. Engineers have already indicated they can, it's just that nobody has yet asked them to.

Thank you for your time and consideration. I know the wireless radiation issue comes out of left field for many and it's a lot to absorb so please don't hesitate to reach out if I can provide additional information, help conduct training sessions, and/or introduce you to leading scientific or medical experts in this field. We would all be eager to help with any questions you may have.

Mahalo nui loa,

Cecelia (Cece) Doucette, MTPW, BA
Technology Safety Educator
508-881-3878 Eastern Standard Time
Director, [Massachusetts for Safe Technology](#)
Founder, [Understanding EMFs](#)
Education Services Director, [Wireless Education](#)
[HiBR Conference @ NIH](#)
[Expert Forum on Wi-fi in Schools](#)

[Municipal Presentation on 5G & EMFs](#)
[Additional YouTube EMF Talks](#)
[*Generation Zapped* Award-Winning Film](#)
[EMF Conference for Health Practitioners](#)

SB-947

Submitted on: 2/9/2021 9:14:16 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Lucy Bell	Individual	Comments	No

Comments:

Fiber optics is cleaner and more sustainable. Wireless is a pollution now well known as Electro Smog. It is odorless, invisible and dangerous in large quantities. We are supposed to be putting our health first in this time. In understanding the desire to digitize Hawaii, please omit the wireless!

SB-947

Submitted on: 2/9/2021 9:33:37 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Naomi Melamed	Individual	Comments	No

Comments:

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless! Mahalo, Naomi Melamed

SB-947

Submitted on: 2/9/2021 9:37:05 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
yoav	Individual	Comments	No

Comments:

Aloha, This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless! Mahalo, Yoav Melamed

SB-947

Submitted on: 2/9/2021 9:40:54 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Christina Magar	Individual	Comments	No

Comments:

I know that you who have pledged to protect our health and safety have the best of intentions. I ask you please do some research on this matter. I offer you two links to articles that are informative and may be helpful to your decision-making. Please read them. I am not a hysterical activist but a very educated, caring citizen concerned for my health, human health, and the planet's health.

Please DO NOT allow for wireless antennae in neighborhoods! I do not want one in my residential or commercial neighborhood of Kohala, Big Island!

I am personally negatively affected by wireless technology and have everything hardwired via the ethernet in my home and office. This is a very comfortable and safe way of providing the internet to all kinds of devices. Wireless antennae threaten my health and safety.

Please do not vote yes on SB851 as it will directly damage my health and all Hawaii communities and the planet. I will not have control over my airwaves at my very own home and place of business. Allowing for these antennae will create an unsafe and unsafe environment. There are 1000s of studies in Europe that show the devastation that wireless can cause on a population's mental and physical health. There are SAFE ways to use EMF when considering Life Force. One example: Please see a case study in Hemberg, Switzerland, where the population was highly-negatively affected and then after mitigation, there were positive results. <https://biogeometryeurope.com/the-miracle-of-hemberg/>

OR If you used fiber optics as the way to transfer waves-- all waves, including the last mile, rather than via the air, we would have improved and safer internet. Fiber optics is known to provide the best means of data transfer. WiFi has damaging effects on our biology, it impairs the cell's mitochondria as studied by Dr Martin Pall. Please see Pall's paper on the threats of WiFi. https://www.researchgate.net/profile/Martin_Pall

If people want to use wifi, then let them choose to in their own homes and offices. In my home and place of business, please let me choose my health over the cheaper and health-threatening wifi.

SB-947

Submitted on: 2/9/2021 9:58:28 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
John Blumer-Buell	Individual	Comments	No

Comments:

ALOHA!

My 'ohana and I want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But, we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Please omit the wireless!

Mahalo!

John

SB-947

Submitted on: 2/9/2021 10:40:28 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
DONNIE BECKER	Individual	Support	No

Comments:

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless!

SB-947

Submitted on: 2/9/2021 10:03:14 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
john kochiss	Individual	Comments	No

Comments:

To whom it may concern; I am writing today regarding SB947, I am in support of fiber optics for safe, secure internet. I saw and experienced firsthand on the Mainland how well this modality works, without emitting all the emf toxicity of wireless. The plants, birds, bees and humans will all thank us for keeping the airwaves clear of these intrusive frequencies. Thank you for reading my comments, Aloha!

SB-947

Submitted on: 2/9/2021 10:42:39 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Cassandra Korte	Individual	Comments	No

Comments:

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless!

SB-947

Submitted on: 2/9/2021 10:45:30 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
George Chyz	Individual	Comments	No

Comments:

Aloha,

Omit the wireless part of this bill. The radiation is toxic.

Focus on delivering fiber to every home, school, and business.

Fiber is the fastest, safest and most reliable technology.

Protect Hawaii from harmful technologies which include all wireless communication systems like WiFi, Bluetooth, Cell Phones, Radio and Television. All of this can be distributed safely via fiber and/or wires.

Thank you,

George

SB-947

Submitted on: 2/9/2021 11:11:54 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Renee Dieperink	Individual	Comments	No

Comments:

COMMENTS:

Please consider to install FIBER OPTIC CABLES instead of wireless infrastructure.

Compared to WiFi, the fiber optic cables will:

- provide safer access
- faster access
- not emit harmful radiation
- provide a more secure connection

SB-947

Submitted on: 2/9/2021 11:22:05 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Michelle Melendez	Individual	Oppose	No

Comments:

This is Hawaii not the mainland. Keeping the environment healthy and strong is our Kuleana. Everything is energy. Please do not bring further high frequency radio waves than are already here! You will endanger the environment, bees, birds and other important life here on the islands. It will never be the same again. Do not make money more important than the **Āina**.

SB-947

Submitted on: 2/9/2021 12:13:42 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Madolin Wells	Individual	Comments	No

Comments:

The primary beneficiaries of expanded wireless and new kinds of technology without adequate safety testing or environmental impact studies appear to be the giant tech companies, not the residents of Hawai'i. This bill appropriately characterizes broadband as both wired and wireless. We need cost-benefit analysis and due consideration of safety, effectiveness, efficiency. potential health effects, and sustainability in the longer term.

SB-947

Submitted on: 2/9/2021 12:17:58 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Donna Dufault	Individual	Comments	No

Comments:

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless!

SB-947

Submitted on: 2/9/2021 1:09:52 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Sulara James	Individual	Oppose	No

Comments:

No more wireless towers and antennas because they are harmful!

Fiber optic cables are safer and faster! Omit the wireless!

SB-947

Submitted on: 2/9/2021 1:28:25 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Marsha Andreola	Individual	Comments	No

Comments:

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, not to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity through fiber optics and hardwired ethernet is faster, safer and more secure than wireless. Omit the wireless!

SB-947

Submitted on: 2/9/2021 1:48:26 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Barbara Best	Individual	Comments	No

Comments:

Broadband Office is good, and so is equal access to it. However, fiber optics, for which we have infrastructure, is safer for living beings, quicker & less able to be hacked. However, wireless has been shown in hundreds of studies to be harmless; NO studies show it is safe! Please, we do not want more ugly towers & toxic antennas polluting our beautiful aina. Hardwired ethernet is the way to go.

Feel free to contact us for more details. Luckily, we have an energy expert on Maui in Dr. Debra Greene: debra@debragreene.com who can back up these claims and more.

Mahalo for allowing input.

SB-947

Submitted on: 2/9/2021 3:55:35 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Tanja Miller	Individual	Oppose	No

Comments:

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet.

SB-947

Submitted on: 2/9/2021 4:04:30 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
KIMIKO KNIGHT	Individual	Comments	No

Comments:

We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless!

SB-947

Submitted on: 2/9/2021 4:41:11 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Paul Stanley	Individual	Oppose	No

Comments:

HAWAII NEEDS WIRED, NOT WIRELESS TECHNOLOGY

I OPPOSE this bill as there must be a differentiation between hard-wired (including fiber optic, etc.) and wireless broadband as there are serious health risks in regards to microwave transmissions.

Electromagnetic Hypersensitivity (EHS) is a real condition which can be debilitating and can be caused by over exposure to microwaves/EMR.

I know this from personal experience as I was injured at my job as a technologist in educational TV due to EMR over exposure.

I lost my dream job and my home in 2005 because I could no longer work.

I've spent over \$60,000 trying to get better. I'm back to work as a classroom teacher, but I'm still in debt and have no money for my daughter's college education.

Hawaii needs to protect its citizens and reduce the use of wireless technology.

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, not to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless!

SB-947

Submitted on: 2/9/2021 6:22:43 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Esther S Felix	Individual	Oppose	No

Comments:

I am already super sensitive to all these wireless, cellphone, etc. and have quite a bit health

issues because of that. So I am totally opposing of anything more. We need nature, quietness and

Life QUALITY!

SB-947

Submitted on: 2/9/2021 6:54:13 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Deborah Davis	Individual	Oppose	No

Comments:

No more wireless and wirelss towers!

SB-947

Submitted on: 2/9/2021 8:53:59 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Anne Allison	Individual	Comments	No

Comments:

**SB947 - Establish & Fund Hawaii Broadband & Digital Equity Office - SUBMIT
COMMENTS**

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless!

SB-947

Submitted on: 2/9/2021 9:12:21 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
gretchen	Individual	Oppose	No

Comments:

I strongly oppose this bill.
please do the same.
thank you

SB-947

Submitted on: 2/9/2021 9:22:09 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Estelle Cruse	Individual	Oppose	No

Comments:

NO! This is not how we want our money spent, no more toxic towers and antennas. No more wireless radiation! Fiber optic will not harm our Keiki in the schools! That is the only acceptable way!

SB-947

Submitted on: 2/9/2021 9:28:58 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Soleil Hawthorne	Individual	Comments	No

Comments:

This bill defines broadband as fixed and mobile, meaning, wired and wireless. I want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But I do not want more toxic towers and antennas spewing out harmful wireless radiation. I want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless!

SB-947

Submitted on: 2/9/2021 9:25:29 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Ken Stover	Individual	Support	No

Comments:

As a computer consultant, I fully support fiber optic cables as a superior alternative to wireless transmissions, it's faster, safer, more secure, and more sustainable in the long run. Omit the wireless.

SB-947

Submitted on: 2/9/2021 9:49:37 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Ano Hanamana	Individual	Comments	No

Comments:

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, not to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless!

SB-947

Submitted on: 2/9/2021 11:30:54 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Ola Flage (Mr.)	Individual	Comments	No

Comments:

I would like to express my passion for fiber optics wherever possible. Nothing is better than that in the current state of affairs. It's safer and healthier, makes more pleasant surroundings. No new ugly towers needed. In your paradise, most certainly not. That's my opinion on this matter.

I hope you agree and act with great caution and foresight when making your decisions on this matter in this week and onwards.

Accompanying you in my thoughts from Bavaria, Germany

Ola Flage (Mr.)

SB-947

Submitted on: 2/10/2021 3:20:55 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Brigitte Otto	Individual	Comments	No

Comments:

I would support this bill only if it were limited to wired technology like fiber optics, which is faster, more reliable, safer and more secure than wireless.

I vehemently oppose more wireless infrastructure. I am electro-sensitive. I know I am not alone. I know other electro-sensitives in Hawaii. I am already suffering due to exposure to wireless infrastructure now. Electro-sensitivity is a recognized disability. If this bill includes wireless, it should contain ADA provisions for electro-sensitives. Forced exposure to wireless radiation amounts to assault/battery and violates Article 3 of the Universal Declaration of Human Rights.

After the FCC had found no evidence of harm caused by wireless radiation, the Children's Health Defense and other groups sued and submitted 11,000 pages of evidence disproving the FCC's claim.

[\(https://childrenshealthdefense.org/defender/landmark-5g-case-against-fcc-hearing-set-jan-25/\)](https://childrenshealthdefense.org/defender/landmark-5g-case-against-fcc-hearing-set-jan-25/) The FCC guidelines will have to be changed.

SB-947

Submitted on: 2/9/2021 11:37:32 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
sara	Individual	Oppose	No

Comments:

Aloha,

this bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless!

Mahalo,

Sara

SB-947

Submitted on: 2/10/2021 8:03:43 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Laurie Bogart	Individual	Oppose	No

Comments:

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless!

SB-947

Submitted on: 2/10/2021 11:31:48 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Barbara Barry	Individual	Comments	No

Comments:

Aloha,

ONLY 30 HOURS to DEADLINE! STATE THREAT TO TAKE AWAY HOME RULE AND IMPOSE SMART CITIES. TAKE ACTION NOW!

We **need strong public opposition** for these measures, especially the first two listed below.

You do not have to write long testimony! Just follow my simple instructions below to take action. **Log-in or register first at www.capitol.hawaii.gov before clicking the button.**

Wednesday 3pm DEADLINE for written and [Hearing is Thursday at 3pm](#). Can join the zoom meeting **Thursday to give oral testimony.** Must **register in advance for oral.**

Easy step by step **instructions on how to submit written AND/OR oral testimony:**

<https://www.dist11maui.com/testify>

SB851 - Relating to WIRELESS Broadband Networks - OPPOSE

Under the guise of bringing broadband to unserved and underserved areas, this bill *targets those areas and seeks to bypass local zoning review or approval for small cell wireless facilities.* This is a very bad bill! Since most underserved areas are rural, and located on the neighbor

islands, this bill would **take away home rule**. Each of the islands is different and local jurisdictions are in the best position to determine what is best for their unique community. Local zoning should not be bypassed when it comes to small cells in public rights of way.

Here's the Bill: https://www.capitol.hawaii.gov/session2021/bills/SB851_.pdf

[Oppose SB851](#)

SB1390 - Establish a 3-year Broadband Infrastructure Task Force - OPPOSE

This bill seeks to fast-track implementation of artificial intelligence, driverless cars, and smart cities in Hawaii and develop cloud platforms "to turn Hawaii into a strategic communications and knowledge hub in the Pacific". One goal is to take advantage of federal funding targeting Hawaiian homelands, low income, and rural areas. This bill is tone deaf. People in need would benefit from food and affordable housing more than cloud computing, augmented reality and robots.

Here's the Bill: https://www.capitol.hawaii.gov/session2021/bills/SB1390_.pdf

[Oppose SB1390](#)

SB947 - Establish & Fund Hawaii Broadband & Digital Equity Office - SUBMIT COMMENTS

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure

with fiber optics and hardwired ethernet. Omit the wireless!
Mahalo,

Barbara Barry

SB-947

Submitted on: 2/10/2021 9:45:36 AM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Aline Huntly	Individual	Oppose	No

Comments:

I want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But I do not want more towers and antennas spewing out harmful wireless radiation in our communities. I want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful and harmful. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Please omit the wireless from this bill!

SB-947

Submitted on: 2/10/2021 2:12:45 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Gala Lirette	Individual	Comments	No

Comments:

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless!

SB-947

Submitted on: 2/10/2021 3:03:23 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Deborah Sevy	Individual	Oppose	No

Comments:

My understanding is that this bill defines broadband as fixed and mobile, meaning, wired and wireless. I believe everyone should have equal access to safer, faster, more secure fiber optics, which is part of a broadband infrastructure. I do not want more toxic towers and antennas spewing out harmful wireless radiation. The fiber optic cables need to run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Please take out the wireless out of this Bill. Thanks

LATE

SB-947

Submitted on: 2/10/2021 4:02:58 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
susan higa	Individual	Comments	No

Comments:

Pls omit wireless connection.

It's not well understood how wireless technology is harmful or even toxic to health.

I quote verbatim what Dr. Tom Cowan states:

“It has been known since the 70’s that millimeter waves degrade the oxygen in the environment, AND interfere with the body’s ability to turn oxygen into fuel, AND cause an inflammatory response.

When you put coffee in a microwave oven, it heats up the water molecules which causes the coffee to heat up.

99.99% of our molecules are water. Our tissues are structured water, like a jello consistency. Our DNA is embedded in and protected by this structured water. If you heat up the body with microwaves, which is what millimeter waves are, we break down and fall apart. It’s called hypoxia and inflammatory or cytokine storm.”

The definition of hypoxia is oxygen deprivation.

I also quote Arthur Firstenberg, author of The Invisible Rainbow who has been researching on electromagnetic radiation and health for the last 40 years:

“Every wire has an electric field and a magnetic field if it has current running through it. Going from wired to wireless means the electricity that was confined within the wire is being released to be broadcasted into the air, and the information too is broadcasted into the air.

The heart and the nervous system are electrical organs. We use electrocardiograms, electroencephalograms because we have electrical circuitry inside us. There is electrical activity going on inside every cell, and we are subject to electromagnetic interference just like any piece of electrical equipment.

The increased electromagnetic field increasingly disturb our metabolism, which is breaking down carbohydrates into simple sugars, fats into fatty acids and proteins into amino acids. The cells can no longer efficiently metabolize the sugars, fats and proteins. So sugars back up into our blood stream, get excreted into our urine and that's called diabetes. Fats back up into our blood stream and deposit into our arteries and when deposited into our coronary arteries, that's called heart disease. As for cancer, we can't combine with the oxygen we breathe efficiently so we are starved of oxygen, by virtue of being irradiated, and cancer thrives in an anaerobic environment.”

Dr. Paul Barattiero:

Electromagnetic frequencies are low voltage radiation. That's why it's a negative to the body. That's why it affects the cognitive functions because radiation affects neurological systems and why it causes headaches. It affects the cellular function to cause them to increase in heat and inflammation.”

Joel Moskowitz, PhD., Director of Public Health, UC Berkeley. His

electromagnetic radiation safety website - saferemr.com - has served as a resource for scientists, journalists, policy makers, and the public since 2013.

“studies done on cell tower sites show higher levels of pathogenic bacteria. Listeria is a benign bacteria and it's found everywhere including inside the body. Under conditions of low oxygen listeria morphs into listeria monocytogenes, a form that produces poisons, which makes you sick, not from the bacteria but the poison it produces in response to the lowered oxygen environment.”

Justin Frandson, one of the most respected Health/Performance Coaches in the country states: "Our bodies are a bio-electrical organism. Our nervous system that controls the entire body, from brain, cranial nerves, spinal cord, peripheral nerves makes up our living connective tissue matrix. This electromagnetic connective tissue is the framework for everything alive. Top doctors working with world class professional athletes all agree that manmade electromagnetic fields are the top stressors."

Lets return the transmission of both electricity and information through fiber optics to make them safer for health, faster speed, more secure with information transmission.

Thank you for protecting our health and welfare by EXCLUDING wireless in this bill.

Gratefully,

Susan Higa

Wailuku

LATE

SB-947

Submitted on: 2/10/2021 5:20:06 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Nykki Hardin	Individual	Oppose	No

Comments:

This bill defines broadband as fixed and mobile, meaning, wired and wireless. We want everyone to have equal access to safer, faster, more secure fiber optics, which is part of broadband infrastructure. But we do not want more toxic towers and antennas spewing out harmful wireless radiation. We want the fiber optic cables to be run to the premises, to our homes, schools and businesses, *not* to the wireless towers and antennas. Fiber optics will bring us faster, safer, more secure connectivity than wireless. Wireless is unnecessary, wasteful, harmful, not clean, not green, not sustainable. Online activity is faster, safer and more secure with fiber optics and hardwired ethernet. Omit the wireless!

LATE

SB-947

Submitted on: 2/10/2021 9:33:52 PM

Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jason Klahr	Individual	Comments	No

Comments:

We dont want any more toxic 5G millimeter wave wireless tower. we welcome fiber optics

LATE

SB-947

Submitted on: 2/10/2021 10:00:12 PM
Testimony for GVO on 2/11/2021 3:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Yuki Klahr	Individual	Comments	No

Comments:

I want everyone to have equal access to safer, faster, more secure broadband in the safest possible way. That means fiber optics. i do not want more toxic towers and antennas generating harmful wireless radiation. Wireless is hamful, not green and not sustainable. Fiber optics is faster, safer and secure. Omit the wireless.