



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 HB1191
RELATING TO BROADBAND SERVICE INFRASTRUCTURE.**

REP. SEAN QUINLAN, CHAIR
HOUSE COMMITTEE ON ECONOMIC DEVELOPMENT.

Hearing Date: February 3, 2021

Room Number: N/A

1 **Department Testimony:** The Department of Health (DOH) supports the establishment of the
2 Hawaii Broadband Infrastructure Grant Program within the Department of Business, Economic
3 Development, and Tourism, and takes no position on the appropriation or deviations from the
4 Governor's budget proposal.

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

10 The department defers to the Department of Business, Economic Development, and Tourism on
11 the merits of proposed program details.

12 Thank you for the opportunity to testify.

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

14



P.O. Box 37158, Honolulu, Hawai'i 96837-0158
Phone: 927-0709 henry.lifeoftheland@gmail.com

COMMITTEE ON ECONOMIC DEVELOPMENT

Rep. Sean Quinlan, Chair
Rep. Daniel Holt, Vice Chair

DATE: Wednesday, February 3, 2021
TIME: 9:30 AM

RE: Relating to Broadband Service Infrastructure

STRONG SUPPORT

Aloha Chair Quinlan, Vice Chair Holt, and Members of the Committee

Life of the Land is Hawai'i's own energy, environmental and community action group advocating for the people and `aina for 51 years. Our mission is to preserve and protect the life of the land through sound energy and land use policies and to promote open government through research, education, advocacy and, when necessary, litigation.

HB 1191 has noble if not original ideas.

Hawaii residents came together in 1970 to discuss the future. "Hawaii 2000; continuing experiment in anticipatory democracy" edited by George Chaplin and Glenn D. Paige was published in 1973.¹

The "Hawaii 2000: Past, Present and Future" Report (Social Science Research Institute, University of Hawaii, 1999) was prepared for the Office of Planning, DBEDT By Jim Dator,

¹ <https://www.amazon.com/Hawaii-2000-Continuing-Experiment-Anticipatory/dp/0824802527>

Michael Hamnett, Devin Nordberg and William S. Pintz, With Robin Brandt, Frechia Basilio, Grace Caligtan, and Ikaika Hussey.²

“In 1970, the administration of Governor John A. Burns supported a project to solicit public opinion on what Hawaii should be like in the Year 2000. This public participation project -- involving over 2,000 residents from all walks of life--resulted in a report entitled Hawaii 2000, which set forth a remarkably prophetic vision of what the State should look like at the turn of the millennium.”

“Earlier this year, we asked the University of Hawaii Social Science Research Institute (SSRI) to review the Hawaii 2000 process and outcomes. Simply put, we asked them to examine what went wrong, what went right, and what we can learn about the process.”

Decades before the internet, Hawaii residents asserted that a worldwide electronic communication network is possible. The 1999 report quoted Chaplin and Paige:

"With additional satellite development, persons who want to will be able to regularize face-to-face communication of a worldwide basis. This means that place-of residence and place-of-work... will become increasingly independent decisions.”

“However, in line with our earlier value choices, we do not believe that Hawaii 2000 should become only a collection of apartments in which almost all social interaction takes place by means of electronic transmission.”

"We anticipate that Hawaii 2000 will have achieved a wide range of diverse communities to constitute the social setting in which individuals carry out most of their activities. Membership in any of these communities will be by choice."

Flash Forward a half-century to HB 1191.

“The legislature finds that access to reliable high-speed broadband across the State and in every community is essential to the well-being and economic realities of our residents.

“The need for new and enhanced broadband infrastructure is significant, highlighted by the devastating impact of the coronavirus disease 2019.

² <http://www.futures.hawaii.edu/publications/hawaii/HI2KDBEDTReport1999.pdf>

“The lack of accessibility to reliable high-speed broadband has had a tremendous negative effect in many areas, but particularly unserved communities.

“Insufficient broadband infrastructure and access has hampered the ability of the State to deliver consistent and meaningful distance learning for all students.

“Telehealth services have replaced in-person doctor visits and are now serving as a significant tool in providing remote medical services to those who would otherwise be unable to receive proper medical care.”

“The department may award grants for eligible projects; provided that on the date the application is submitted, the area to be served by the project shall be an unserved area; provided further that no funds shall be used to support any project involving the upgrade of an existing broadband plant by an applicant and shall not include any portion of an area that is partially served by an existing provider.”

Life of the Land strongly supports equity in telecom communications and interactions. All sectors of society need to be allowed to compete in future possibilities.

Mahalo
Henry Curtis
Executive Director



**Testimony to the House Committee on Economic Development
Wednesday, February 3, 2021; 9:30 a.m.
State Capitol, Conference Room 312
Via Videoconference**

RE: HOUSE BILL NO. 1191, RELATING TO BROADBAND. SERVICE INFRASTRUCTURE.

Chair Quinlan, Vice Chair Holt, 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** House Bill No. 1191, RELATING TO BROADBAND SERVICE INFRASTRUCTURE.

The bill, as received by your Committee, would:

- (1) Establish the Broadband Infrastructure Grant Program (Program) to extend the deployment of facilities used to provide broadband service to unserved areas of the State;
- (2) Change the Hawaii Technology Loan Revolving Fund to the Hawaii Broadband Infrastructure Fund (Fund), change the types of funds to be deposited into the Fund, and cap the amount in the fund to \$10,000,000 at the end of any fiscal year; and
- (3) Authorize the issuance of \$5,000,000 in general obligation bonds for fiscal year 2021-2022 for the Program.

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.

Testimony on House Bill No. 0809

Wednesday, February 3, 2021; 9:30 a.m.

Page 2

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.

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.

HB-1191

Submitted on: 2/1/2021 12:07:22 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Debra	Keep Your Power Hawaii	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I am writing on behalf of KeepYourPower.org, a coalition of Hawaii residents concerned about the proliferation of toxic wireless infrastructure and advocating for safe technology. We support HB119 BECAUSE it contains the provision that it does not include wireless infrastructure or facilities. *Wireless is not necessary* in order to be online. Hard wired fiber optics is the safer, faster, more secure way to provide connectivity. We thank you protecting our health and wellbeing as well as looking out for our precious environment.

HB-1191

Submitted on: 2/1/2021 12:30:45 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Al Torre	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I am very concerned about this bill being altered to include more wireless. Please DO NOT let that happen. I only SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. Our communities want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

HB-1191

Submitted on: 2/1/2021 12:30:59 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Zoe Alexander	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I **support** this bill because ***IT EXCLUDES WIRELESS.***

I want safer, faster, more secure fiber optics everywhere in Hawaii. I do not want more toxic wireless towers and antennas.

Thank you for protecting our health and welfare by *excluding* wireless in this bill!

Aloha,

Zoe Alexander (Maui)

HB-1191

Submitted on: 2/1/2021 12:38:18 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Ron Schranz	Individual	Support	No

Comments:

I appreciate any bill that retains local control of our air waves and protects our health.

Wireless technology , Cell transmitters and 5 G are very dangerous to me and my family especuially children. Cell corporations have NO proof of safety and really could care less. They only are concerned with PROFIT.

This bill needs to excluding ALL wireless tchnology and STOP ,the proliferation that is ongoing today.

My home is UNLIVEABLE today as I am surrounded by 52 cell transmittets within 3600 feet of my home and now 8 digital meters on every home next to me. I can NOT be in my home or even walk in my yard ass the radiation is harming badly and causing extreme headaches with bad eye pains as well. I may have to leave the islands, my home for over 45 years now to save my health.

Remember YOU & YOUR families are not IMMUNE. Please save us all from microwave poisoning.

Sincerely Ron Schranz

HB-1191

Submitted on: 2/1/2021 12:34:41 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

Aloha! I support this bill because it does NOT include wireless. Thank you!

HB-1191

Submitted on: 2/1/2021 1:08:19 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
PAtricia A. Criss	Barefoot Fitness Naturally	Oppose	No

Comments:

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

Our health depends on your choices and we ask you to consider the science behind excluding wireless towers and antennas. There is ample evidence of health risks and threats from these transmitters and receivers. Please endorse HB1191 to protect your citizens.

OFFICE OF INFORMATION PRACTICES

STATE OF HAWAII
NO. 1 CAPITOL DISTRICT BUILDING
250 SOUTH HOTEL STREET, SUITE 107
HONOLULU, HAWAII 96813
TELEPHONE: 808-586-1400 FAX: 808-586-1412
EMAIL: oip@hawaii.gov

To: House Committee on Economic Development

From: Cheryl Kakazu Park, Director

Date: February 3, 2021, 9:30 a.m.
Via Videoconference

Re: Testimony on H.B. No. 1191
Relating to Broadband Service Infrastructure

Thank you for the opportunity to submit testimony on this bill, which would establish a broadband infrastructure grant program. The Office of Information Practices (OIP) takes no position on the substance of this bill, but offers comments and a **suggested amendment to the confidentiality provision on page 8** of the bill.

As written, the confidentiality provision is overly broad, requiring the Department of Business and Economic Development (DBEDT) to keep confidential any application information a grant applicant has designated as confidential so long as it leaves public a description of the project area and some amount of evidence that the project area is unserved. There is no other check on what the applicant may designate confidential, and no provision for a member of the public to appeal the confidentiality designation to OIP or to court. Thus, an applicant could designate as confidential everything in the application except the description of the project area and how it is unserved, and DBEDT would apparently be required to redact it all before putting the application online for public review as also required

by this proposal. It is also not clear why a competing broadband provider challenging the basis for an application should be automatically entitled to have its challenge kept confidential upon request. Given the small number of possibilities, the identity of a challenger is likely to be obvious in any case, and there is no obvious reason why the public and the applicant should not be privy to the grounds for the challenge.

Thus, OIP recommends that the confidentiality provision be amended so that it allows an applicant to designate material as confidential or a challenger to request confidential treatment, but only requires DBEDT to actually treat the information as confidential to the extent it is in fact protected under the UIPA. An applicant would have the opportunity to flag confidential information and a challenger would have the opportunity to request confidential treatment, but neither would have the final word on what must be kept confidential by law.

Specifically, OIP recommends replacing the first part of proposed subsection __-6(b) with the following:

(b) To the extent the information falls under one or more of the exceptions to public disclosure in section 92F-13, the department shall keep information in an application or challenge confidential upon request by: . . .

Thank you for considering OIP's suggested amendment.



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

HOUSE COMMITTEE ON ECONOMIC DEVELOPMENT

Wednesday, February 3, 2021

9:30 AM

State Capitol, Conference Room 309

In consideration of

HB809

RELATING TO BROADBAND SERVICE INFRASTRUCTURE

Chair Quinlan, Vice Chair Holt and members of the Committee. The Department of Business, Economic Development and Tourism (DBEDT) provides comments to HB1191 that establishes the broadband infrastructure grant program to award grants to applicants to extend deployment of infrastructure used to provide broadband service to unserved areas of the State.

- The COVID-19 pandemic has spotlighted the need for broadband infrastructure and digital equity across all of Hawaii's residents especially those in rural communities and socioeconomically disadvantaged circumstances. In 2021, this is being recognized by Federal stimulus programs directed to state departments.
- DBEDT also needs to assess the resources to create the policies, rules, procedures and reports necessary to successfully implement this grant program.
- DBEDT appreciates the intent of the bill provided it does not replace priorities included in the Executive Budget.
- DBEDT notes, the recent FCC's Rural Digital Opportunity Fund (RDOF) may potentially limit or exclude areas that receive state broadband deployment subsidies from RDOF consideration.

Thank you for the opportunity to testify.

HB-1191

Submitted on: 2/1/2021 12:40:54 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
susan walczak-pol	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

HB-1191

Submitted on: 2/1/2021 12:41:15 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
April Petersom	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

This bill establishes a grant program to support broadband in underserved areas and, even though broadband has been redefined to include wireless - and 5G - this bill specifically says that it does NOT include wireless! We love that!

Sincerely,

April Peterson

HB-1191

Submitted on: 2/1/2021 12:44:55 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I appreciate being able to input and that this bill excludes wireless. This is so important because there are hundreds of studies proving that wireless is dangerous to the health of living creatures. There are NO studies that show it is harmless. I am grateful to learn that unserved areas will be able to have broadband and that we won't have to suffer from more wireless towers & antennas. PLEASE don't be swayed by big tech telling you wireless is safe, as they have no proof! We have infrastructure for fiber optics which may have to be beefed up, but it is safer, faster & less liable to hacking than wireless. Mahalo nui loa! Mr. & Mrs. Bill Best, Wailuku HI

HB-1191

Submitted on: 2/1/2021 12:48:28 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Sondra Olson	Individual	Support	No

Comments:

We LOVE this bill! It provides the fastest, safest access to everyone in the state. As someone who suffers from electromagnetic sensitivity, this would provide for many like us safe & secure access to internet service. Our disability has been finally recognized by the AMERICAN DISABILITY ACT, which means that the future will legally provide for us this upgrade. Businesses, hotels, schools, libraries & every public place will need to provide this service. Better yet for homeowners to keep children & all those vulnerable safe.

Hawaii is so beautiful. The cell towers & all the various internet contraptions popping up all over our state are a real eyesore, distracting from the restful simplicity of our aloha spirit.

MAHALO!

Sondra Olson

Big Island

HB-1191

Submitted on: 2/1/2021 12:51:17 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Dawn Poiani	Individual	Support	No

Comments:

I support HB1191. I SUPPORT this bill

This bill establishes a grant program to support broadband in underserved areas and, even though broadband has been redefined to include wireless - and 5G - this bill specifically says that it does NOT include wireless! I love that! Faster, more secure fiber optics everywhere should be available everywhere in Hawaii, especially in rural and underserved areas. Fiber optics is a superior way to connect online, far superior to wireless.

Thank you for your support of HB1191

HB-1191

Submitted on: 2/1/2021 12:56:42 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by **excluding wireless** in this bill!

HB-1191

Submitted on: 2/1/2021 1:06:12 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. It's important to provide safer, faster, more secure fiber optics everywhere in Hawaii. I do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill and instead supporting the extensive implimintation of fiber optic service.

Be well,

George

HB-1191

Submitted on: 2/1/2021 1:08:11 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Samuel Watkins	Individual	Support	No

Comments:

HB1191 solves a number of problems with the transmission of internet and cellphone data without the use of unsightly and potentially hazardous cell towers. Fiber optic cables would be underground so not exposed to the elements, hurricanes, etc. Constant radiation exposure to 5G, especially for young people, has been shown by a large number of scientific studies to be hazardous to our health and well being. This bill is an acceptable alternative and must be seriously considered.

HB-1191

Submitted on: 2/1/2021 1:26:54 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill! Thank you for looking out for the keiki and kupuna!

Sincerely,

Estelle Cruse

Big Island Resident

HB-1191

Submitted on: 2/1/2021 1:34:02 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Nadine NEWLIGHT	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Mahalo for protecting our health and welfare by *excluding* wireless in this bill!

Nadine NEWLIGHT

Ha`iku

HB-1191

Submitted on: 2/1/2021 1:30:51 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Jeanne Wheeler	Individual	Support	No

Comments:

I SUPPORT this bill because it actually EXCLUDES WIRELESS & would thus promote a safer environment. I live in a rural area, but would like to have fiber optics provide online connectivity & NOT more ugly/toxic wireless towers/antennas. Thank you so much for considering folks' health & welfare by excluding wireless in this bill - please do NOT remove this wireless exclusion! Mahalo :)

HB-1191

Submitted on: 2/1/2021 1:51:44 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Naomi Ackerman	Individual	Support	No

Comments:

Aloha, Chair Quinlan and Members of the Committee on Economic Development,

I support this bill (HB1191) because it specifies that wireless and 5G are NOT included in broadband.

We DO NOT want more toxic wireless towers and antennas. We WANT safer, faster, more secure fiber optics everywhere in Hawaii.

THANK YOU for protecting our health and welfare by *excluding* wireless in this bill!

With much appreciation,

Naomi

HB-1191

Submitted on: 2/1/2021 2:11:19 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Sarah Martins	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

MAHALO!

HB-1191

Submitted on: 2/1/2021 2:11:29 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Swami Om	Individual	Support	No

Comments:

I support this bill because it excludes wireless. I do not want more ugly toxic wireless antennas & towers.

HB-1191

Submitted on: 2/1/2021 2:29:51 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Tyler Lewis	Individual	Support	No

Comments:

I support this bill because it excludes wireless. It really is a different animal and should be treated differently. I would like to have a wired connection to my home and will pay extra for non wifi services.

Aloha Tyler

HB-1191

Submitted on: 2/1/2021 2:46:53 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Lori Nakamura-Higa	Individual	Support	No

Comments:

Aloha,

I support the passing of HB1191. Thank you for the opportunity to submit testimony.

HB-1191

Submitted on: 2/1/2021 2:59:12 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Levana Lomma	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

This testimony is in support of House Bill 1191 because it EXCLUDES wireless.

The people of Hawai'i want safer, faster, more secure fiber optics everywhere. We do not want more toxic wireless towers and antennas that cause harm to the biological functions of all life on earth.

Thank you for protecting Hawai'i and all of its living creatures by *excluding* wireless in this bill!

HB-1191

Submitted on: 2/1/2021 3:06:54 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Lani Orr	Individual	Support	No

Comments:

I support this bill because it does not include wireless. Wired technology is safer in my opinion..

HB-1191

Submitted on: 2/1/2021 3:08:49 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

Please exclude wireless in this bill and utilize fiber optics. Let's digitize hawaii safely.

Thank you,

Lucy Bell

HB-1191

Submitted on: 2/1/2021 3:17:07 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

[Support HB1191](#)

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

<https://www.dist11smaui.com/testify>

www.KeepYourPower.org Join us on FaceBook: [5G Free Hawaii](#)

Share:



HB-1191

Submitted on: 2/1/2021 3:21:26 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

«» Aloha Chair Quinlan and Members of the Committee on Economic Development,

I support HB1191 because it EXCLUDES WIRELESS.

We want safer, faster, more secure fiber optics everywhere in Hawaii. There is already too much toxic wireless towers and antennas.

It took me a long time to truly understand why wireless was toxic. The following are words verbatim by Dr. Tom Cowan:

“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 in a jello like consistency inside of the cells. Our DNA is embedded in and protected by this structured water, and if you heat us up with microwaves we break down and fall apart. It’s called hypoxia and inflammatory or cytokine storm.”

Hypoxia: oxygen deprivation

Arthur Firstenberg, author of *The Invisible Rainbow*:

“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. Nerve impulses are electrical impulses. The heart's pacemaker and the conductive pathways in the heart are electrical. Both are subject to electromagnetic interference just like any piece of electrical equipment is subject to electrical interference. We have electrocardiograms, electroencephalograms, obviously we have electrical circuitry inside us. There is electrical activity going on inside every cell.

The increased electromagnetic field increasingly disturb our metabolism which means we can no longer efficiently metabolize our 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 function and why it causes headaches. It affects the cellular function to cause them to increase in heat and inflammation.”

Sally Fallon, co-author of *Contagion Myth*:

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.”

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.

“There is a proliferation of pathogenic microbes in the vicinity of cell tower sites.”

I hope this gives you a better idea of how wireless is toxic to our biology and why hardwired technology is the way to move forward.

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

Gratefully,

Susan Higa

Wailuku

HB-1191

Submitted on: 2/1/2021 3:27:30 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Helena Berg	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

_____ Helena Berg _____

HB-1191

Submitted on: 2/1/2021 3:53:37 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
jennifer noel	Individual	Support	No

Comments:

I support bill HB1191 because it excludes wireless. I want faster but safe and secure fiber optics everywhere in Hawaii. I do not want toxic towers that could have health ramifications. Thank you so much for realizing that this is a big concern to many of your constituents!

HB-1191

Submitted on: 2/1/2021 3:56:36 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Bill Brizee	Individual	Support	No

Comments:

I do not want 5G so i support this bill



Written Statement of
Len Higashi
Acting Executive Director
Hawaii Technology Development Corporation
before the
House Committee On Economic Development
Wednesday, February 3, 2021
9:30 a.m.
Videoconference

In consideration of
HB1191
RELATING TO BROADBAND SERVICE INFRASTRUCTURE.

Chair Quinlan, Vice Chair Holt, and Members of the Committee.

The Hawaii Technology Development Corporation (HTDC) offers **comments** on HB1191 that establishes the broadband infrastructure grant program to award grants to applicants to extend deployment of infrastructure used to provide broadband service to unserved areas of the State. Amends the Hawaii technology loan revolving fund to change it to the Hawaii broadband infrastructure fund, including the types of funds deposited into the fund; and authorizes the issuance of general obligation bonds for the broadband infrastructure grant program.

HTDC supports efforts to increase broadband capacity in the state. HTDC points out that this bill is unusual in that it establishes a program within DBEDT and uses an HTDC Revolving Fund under HRS206M-15.6 to award grants. HTDC has not implemented a program setup this way before. HTDC works closely with the Hawai'i Broadband Strategy Officer. HTDC is available to assist but defers to the Department on the merits of this measure. HTDC looks forward to working with all stakeholders to move broadband forward.

Thank you for the opportunity to offer these comments.

HB-1191

Submitted on: 2/1/2021 5:20:38 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Maha Conyers	Mahana Weddings Maui	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

Sincerely

Rev. Conyers

HB-1191

Submitted on: 2/1/2021 5:48:25 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Marcia Patrick	KeepYourPower.org	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

Mahalo,

Marcia Patrick

HB-1191

Submitted on: 2/1/2021 8:51:29 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Julia M. Yano	Aloha Freedom Coalition	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

We are requesting your support of this bill, due to the fact that it *excludes Wireless*. We encourage safer, faster, more secure fiber optics everywhere in Hawaii; however, we do not want more toxic wireless towers and antennas.

Thank you for listening; and considering the health of us all.

With Sincere Respect,

Julia Yano, Mother of Three

Written Statement of
Ani Menon
Director of Government & Community Affairs

HOUSE COMMITTEE ON ECONOMIC DEVELOPMENT

February 3, 2021 9:30AM
State Capitol, Conference Room 312, Videoconference

COMMENTS FOR:

H.B. NO. 1191 RELATING TO BROADBAND SERVICE INFRASTRUCTURE

To: Chair Quinlan, Vice-Chair Holt, and Members of the Committee
Re: **Testimony providing comments for HB 1191**

Aloha Honorable Chair, Vice-Chair, and Committee Members:

Thank you for this opportunity to submit comments on House Bill 1191. The primary intent of this bill is to establish a broadband infrastructure grant program that would serve unserved communities throughout our state. Hawaiian Telcom supports this intent with the following comments.

Hawaiian Telcom is the only service provider who has submitted bids for and won federal Connect America Funds (CAF) to connect rural communities throughout Hawaii. CAF is the Federal Communications Commission's (FCC) major reform to the Universal Service Fund to accelerate broadband deployment in unserved areas across the nation.

In the recent past, we submitted and won a competitive bid for the CAF Phase II Auction (a second allocation of FCC Phase II funds, 2018-2024). Hawaiian Telcom was awarded \$18.2 million in CAF Phase II Auction federal funds to deploy high-speed internet service of 1 gigabit per second download and 500 megabits per second upload.

The FCC recently established the federal Rural Digital Opportunity Fund (RDOF), a successor to the CAF program. RDOF provides \$20.4 billion in nationwide broadband deployment funding. The RDOF order states that “[the FCC] will exclude those census blocks which have been identified as having been awarded funding through the U.S. Department of Agriculture’s ReConnect Program, or awarded funding through other similar federal or state broadband subsidy programs to provide 25/3 Mbps or better service.”

Based on this language, the FCC may exclude census blocks that receive broadband deployment funding from a state broadband program from their list of eligible areas. **We are concerned that the establishment of a state broadband grant program will jeopardize our state’s access to significant federal broadband funds based on the FCC’s RDOF order.**

We most recently won over \$24 million in federal RDOF Phase I auction funds to deploy broadband to over 8,000 rural locations statewide. The FCC has announced that it will move forward with a RDOF Phase II auction in the near future that will include locations not funded in Phase I. Being able to access federal funds to deploy broadband in Hawaii is important now more than ever.

Thank you for the opportunity to submit these comments for House Bill 1191.

HB-1191

Submitted on: 2/1/2021 4:23:23 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
jade mcgaff, md	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

BACKGROUND: This bill establishes a grant program to support broadband in underserved areas and, even though broadband has been redefined to include wireless - and 5G - this bill specifically says that it does NOT include wireless! We love that!

We want safer, faster, more secure fiber optics everywhere in Hawaii, especially in rural and underserved areas. Fiber optics is a superior way to connect online, far superior to wireless.

PLEASE keep our People healthy with less radiation.'

Mahalo,

Jade McGaff, MD

HB-1191

Submitted on: 2/1/2021 4:34:03 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
michelle andrews	Individual	Support	No

Comments:

Members of the Committee on Economic Development, I support this bill because it *EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

mahalo for your time,

Michelle Andrews

HB-1191

Submitted on: 2/1/2021 5:29:22 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
bonnie fish	Individual	Support	No

Comments:

We want safer, faster, more secure fiber optics everywhere in Hawaii, especially in rural and underserved areas. Fiber optics is a superior way to connect online, far superior to wireless.

I support this bill because it excludes wireless. We have such a beautiful potential here in hawaii but we must preserve it. This is a way to make quality tourism. keep hawaii free of 5G!

HB-1191

Submitted on: 2/1/2021 5:33:03 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Cynthia Merrick	Individual	Support	No

Comments:

I support this bill because it does not include wireless. We need to protect our people, environment and the beauty of our islands. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic and unsightly wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill! Yay Hawaii!!!

HB-1191

Submitted on: 2/1/2021 6:15:20 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Jo Greenwald	Individual	Support	No

Comments:

Aloha, I am very supportive of increasing access to broadband, especially for our underserved areas. However, I am also strongly against using 5G for wireless. I am only supporting this bill because it explicitly excludes wireless. I hope that this exclusion remains. Thank you for your consideration. Please do the right, safe thing for all of us. Mahalo

HB-1191

Submitted on: 2/1/2021 6:40:00 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
aerie waters	Individual	Support	No

Comments:

Plain and simple... I am not alone in wanting nothing to do with 5G. My reasons are health based.

Thank you. Aerie WAters

HB-1191

Submitted on: 2/1/2021 6:45:26 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Robert B. Smith	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

HB-1191

Submitted on: 2/1/2021 6:49:15 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Eugene Elmer	Individual	Support	No

Comments:

Aloha,

I support HB1191 but only for increased fiber optic availability. Fiber optics are safe. Unlike the electromagnetic frequencies(emf) and RF radiation from cell towers, they do not pose a threat to our fragile ecosytem, our population being a part of that ecosystem There is mountains of research proving that the radiation from 5g technology is very harmful to living organisms from honeybees and other crucial pollinators all the way to human beings.

Hawaii County passed Resolution 678-20 8-1, and it states clearly at the end of that resolution, that 5g has been PROVEN to be harmful. Furthermore, cell towers are unsightly and lower property values considerably. Fiber optics are faster and more secure, and this is the direction many communities are going. Please make the great choice for the Keiki and the Community to not include wireless broadband in this bill. Mahalo!

Sincerely,

Eugene Elmer

HB-1191

Submitted on: 2/1/2021 6:56:23 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Sunniva Maguire	Individual	Support	No

Comments:

Aloha

I am moving to a rural area next week where a wired connection is not currently possible, neither phone nor internet. Fiber optics is better, faster and safer than a wireless option. I used to live next to a cell tower and do not believe we understand the full impact of radio/microwave frequencies on the environment and living beings in it. I am in favor of this bill (**HB1191**) because I think it is very positive for the community to have wired rather than wireless internet options. I would like no more cell towers and more fiber optics please! Mahalo for your time and attention.

Sincerely,

Sunniva Maguire

HB-1191

Submitted on: 2/1/2021 7:22:52 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

HB-1191

Submitted on: 2/1/2021 7:35:50 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
John NAYLOR	Individual	Support	No

Comments:

I support this because it excludes wireless! Fiber optics is the way to go! Mahalo

HB-1191

Submitted on: 2/1/2021 8:17:18 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Christine Wolcott	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

BACKGROUND: This bill establishes a grant program to support broadband in underserved areas and, even though broadband has been redefined to include wireless - and 5G - this bill specifically says that it does NOT include wireless! We love that!

We want safer, faster, more secure fiber optics everywhere in Hawaii, especially in rural and underserved areas. Fiber optics is a superior way to connect online, far superior to wireless.

Sincerely,

Christy Wolcott

HB-1191

Submitted on: 2/1/2021 8:23:10 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Michael Reed Gach	Individual	Support	No

Comments:

Dear Chair Quinlan & Economic Development Committee Members,

I support HB1191 bill which Excludes Wireless. I want safer, faster, more secure fiber optics everywhere in Hawaii. Fiber optics is "more better" and safer than wireless. I am strongly against wireless towers and antennas.

Thank you for protecting our health and welfare by *excluding* wireless in this bill!

February 1, 2021

Alana Ross
Box 964
Hana, HI 96713

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT HB1191 This Bill for the Broadband Grant Program for
Underserved Areas - I HIGHLY SUPPORT
this bill *BECAUSE IT EXCLUDES WIRELESS*.

If you do your due diligence you will find evidence supporting the ill effects of wireless technology. What you can't see CAN HURT YOU and the ramifications are detrimental to the health and wellbeing of all plants, animals and water.

If Maui can set the precedent and become a fiber optic driven utopia we can use this as a selling point to attract visitors. A vacation from a wifi living environment void of microwave radiation blasting our cells with harmful rays.

I want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas.

Thank you kindly for protecting our health and welfare by *excluding* wireless in this bill forever and ever!

Sincerely yours,

Alana Ross
Hana, Hawaii

HB-1191

Submitted on: 2/1/2021 9:14:56 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

Mahalo, Naomi Melamed

HB-1191

Submitted on: 2/1/2021 9:18:16 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

Mahalo, Yoav Melamed

HB-1191

Submitted on: 2/1/2021 9:37:56 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Lyanne Brooks	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. Fiber optics is the best way to serve the people and we do not want any more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill. I look forward to seeing this bill for fiber optics go through <3

HB-1191

Submitted on: 2/1/2021 9:58:44 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
gary cordery	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development.

In an effort to preserve safe wireless service in Hawaii, I fully support this bill, I do not want unnecessary toxic towers erected around our homes and neighborhoods. We currently have excellent wireless service, therefore, they are not needed or wise.

Thank you for your thoughtful consideration of the health of our Keiki, Kapuna and all our Ohana.

Mahalo,

Gary Cordery

45-020 Namoku St.

Kanehoe HI

808-478-8046

HB-1191

Submitted on: 2/1/2021 10:02:05 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

To whom it may concern, I support this bill because it does not include wireless. I am in favor of fiber optics cable, time-tested, safe, efficient, reliable. I do hope and pray that everyone considers the impact on our environment of these wireless frequencies, the bees barely made the adjustment to 4G, now we are really giving them a serious hurdle to overcome. Thank you for taking the time to read my comments, Aloha!

HB-1191

Submitted on: 2/1/2021 10:03:32 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Elizabeth Diamond	Individual	Support	No

Comments:

[HB1191](#) - A Bill for Broadband Grant Program for Underserved Areas - SUPPORT

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I STRONGLY SUPPORT this bill as it omits WIRELESS. We do not want more toxic towers and antennas for ourselves and our children. It's healthier and safer and more secure to have more fiber optics everywhere in Hawaii.

Mahalo for protecting our and our children precious health by excluding wireless in this bill.

HB-1191

Submitted on: 2/1/2021 10:17:30 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Lois J Young	Individual	Support	No

Comments:

Aloha Chair and committee members,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

Mahalo,

Lois Young

HB-1191

Submitted on: 2/1/2021 10:34:57 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Rasa Fournier	Individual	Support	No

Comments:

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!!!

Thank you,

Rasa Fournier

808-799-8908

HB-1191

Submitted on: 2/1/2021 10:45:57 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Maria Caps	Individual	Support	No

Comments:

Aloha.

Given the abundance of independent, peer-reviewed published studies on the adverse effects of wireless radiation, I SUPPORT this bill DUE TO THE EXCLUSION OF WIRELESS. Fiberoptic technology is a safe and reliable way to connect online.

Many people are aware of the detrimental effects of wireless radiation and take pains to limit their exposure. We can turn off our cellphones and wifi, but we can't turn off wireless towers and antennas.

Professor Martin Pall PhD reviewed the evidence for detrimental effects of 5G. These include DNA damage, cancer, decreased fertility, neurological and neuropsychiatric effects, widespread hormonal effects, and oxidative stress and free radical damage. Note that major risk factors for severe COVID are conditions which impair one's ability to handle oxidative stress, and wireless radiation causes oxidative stress. damage<https://einarflydal.files.wordpress.com/2018/04/pall-to-eu-on-5g-harm-march-2018.pdf>

Hundreds of scientists and physicians have called for a moratorium on 5G, "The 5G Appeal". <http://www.5gappeal.eu>

In October 2019, the respected journal *Scientific American* published a piece titled "**We Have No Reason To Believe 5G Is Safe**".

Further evidence of biological harm from wireless radiation can be found in the Bioinitiative Report 2012, recently updated for 2020. <https://www.bioinitiative.org/conclusions>

Let's preserve the health of Hawaii by EXCLUDING WIRELESS in this bill.

Mahalo for your consideration.

HB-1191

Submitted on: 2/1/2021 10:50:27 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Gary Ngo	Individual	Support	No

Comments:

Chair Quinlan and Members of Committee on Economic Development

RE HB 1191

Feb. 1, 2021

Dear Representative Quinlan and Members of Committee on Economic Development

I support this bill because it is excluding wireless. We need to protect our welfare and health of our Hawaii Islands Ohana from the harmful impact of wireless towers and its infrastructure. We would rather have more secure and safe fiber optics in Hawaii. Thank you for protecting our communities by excluding wireless in this bill.

HB-1191

Submitted on: 2/1/2021 11:45:56 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Amazing Amy Harlib	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

We want safer, faster, more secure fiber optics everywhere in Hawaii, especially in rural and underserved areas. Fiber optics is a superior way to connect online, far superior to wireless.

HB-1191

Submitted on: 2/2/2021 12:11:45 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Christine Morrice	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. In order to protect our young and developing keiki,, we do not want more toxic wireless towers and antennas. We have more than enough wireless in our homes & everywhere we go!

Thank you very much for protecting our health and welfare by *excluding* wireless in this bill!

HB-1191

Submitted on: 2/2/2021 12:16:45 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Tsu Osato	Individual	Support	No

Comments:

Aloha Chair Quinlan and members of the Committee on Economic Development,

I SUPPORT this Bill BECAUSE IT EXCLUDES WIRELESS.

We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas.

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

Mahalo!

Tsu Osato

HB-1191

Submitted on: 2/2/2021 1:43:56 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

I strongly support this bill because it excludes wireless. This approach will give residents safe and secure access to the internet while, at the same time, protecting their health. I cannot stress enough how much I appreciate this bill because I am being injured by wireless infrastructure, especially cell-phone antennas on a neighbor building's roof. Fiber optics are much safer, more secure, faster and more reliable. This path should be taken everywhere in Hawaii. The densification of dangerous wireless infrastructure should be given up. Otherwise, it will lead to a serious public-health crisis.

HB-1191

Submitted on: 2/2/2021 2:32:37 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Racquel Alfsen	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS.*

Fiber optics are less toxic than wireless towers and antennas and far superior to 5G in speed, response time and operational costs. Thank you for protecting the health and welfare of Hawaii residents by excluding wireless in this bill.

HB-1191

Submitted on: 2/2/2021 5:16:44 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Andrea Rubio	Individual	Support	No

Comments:

Aloha Chair Quintana's and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS. We want safer, faster, more secure fiber optics everywhere in Hawaii please. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by **excluding wireless in this bill!***

HB-1191

Submitted on: 2/2/2021 5:38:34 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

Mahalo!

HB-1191

Submitted on: 2/2/2021 6:24:42 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

HB1191 - A Bill for Broadband Grant Program for Underserved Areas - SUPPORT

Aloha Chair Quinlan and Members of the Committee on Economic Development

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS* while providing the benefits of safe digital communication to those in Hawaii who are underserved. We want safer, faster, more secure fiber optics available to everyone in Hawaii. We *don't want* wireless towers and antennas that are harmful to human health. Mahalo for protecting the people's health and welfare by *excluding* wireless in this bill!

HB-1191

Submitted on: 2/2/2021 6:44:50 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Joli Johnston	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I am writing to support this bill because it excludes wireless. I am in support of fiber optics everywhere in Hawaii because it is safer, faster and more secure. Wireless towers and antennas are extremely harmful to our people and surrounding environment. Thank you for protecting our health and welfare by excluding wireless in this bill.

Mahalo piha

HB-1191

Submitted on: 2/2/2021 7:15:01 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Kara Whitaker	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding*wireless in this bill!

HB-1191

Submitted on: 2/2/2021 7:33:05 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Corine Tilson	Individual	Support	No

Comments:

Aloha Kakou,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *EXCLUDING* wireless in this bill!

Mahalo Nui,

Corine

HB-1191

Submitted on: 2/2/2021 7:37:26 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Daniel Kanahele	Individual	Support	No

Comments:

Aloha C

Dear Committee Members,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. I do not want the proliferation of wireless towers/infrastructure in my neighborhood that are both unsightly and may pose unknown risk to me and my family due to long term exosure

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

HB-1191

Submitted on: 2/2/2021 7:39:22 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Lisa Kerman	Individual	Support	No

Comments:

Aloha Chair Quintana and Memvers of the Committee on Economic Development,

I am writing in support of Bill HB1191. What I appreciated about this bill is that it allows for safer, faster, more secure fiber optics here in Hawaii without the dangers that come with wireless technology.

Thank you for considering the safety of the Hawaiian population,

Lisa Kerman-P.O. Box 1011-Kilauea-HI-96954

HB-1191

Submitted on: 2/2/2021 7:57:55 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Blair Reddish	Individual	Support	No

Comments:

Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill! Let Hawai'i be the future our children deserve, with safer more secure fiber optics.

HB-1191

Submitted on: 2/2/2021 8:26:18 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. I want safer, faster, more secure fiber optics everywhere in Hawaii but I and many others do NOT want more harmful wireless towers and antennas. Thank you for protecting our health and welfare by *EXCLUDING* wireless in this bill!

Mahalo,
Aline Huntly

February 3, 2021

Representative Sean Quinlan, Chair
Representative Daniel Holt, Vice Chair
House Committee on Economic Development
Conference Room 312, Hawai'i State Capitol

RE: Testimony in support of HB 1191, Relating to Broadband Service Infrastructure

Chair Quinlan, Vice Chair Holt, and Committee Members:

My name is Christine Sakuda and I serve as the executive director of Transform Hawai'i Government (THG), a coalition of organizations and individuals who advocate for an accessible, accountable and responsive state government that leverages technology to help citizens, communities, and businesses throughout Hawai'i to thrive. We provide a consistent and persistent voice to keep modernization a top priority of state government.

THG supports House Bill 1191, Relating to Broadband Service Infrastructure, which establishes the broadband infrastructure grant program to award grants to applicants to extend deployment of infrastructure used to provide broadband service to unserved areas of the State. It amends the Hawaii technology loan revolving fund to change it to the Hawaii broadband infrastructure fund, including the types of funds deposited into the fund. This bill authorizes the issuance of general obligation bonds for the broadband infrastructure grant program.

As the co-host of the Broadband Hui, a growing group of public and private stakeholders who have committed to support broadband infrastructure and digital equity throughout the state, THG believes that broadband is a key investment in Hawai'i's future. The COVID-19 pandemic has made it abundantly clear that inequities exist in residents' access to broadband and digital devices. This impacts education and health outcomes along with economic opportunity for many, particularly for some of our most low-income and/or rural community members.

While we understand and share the concern around the state's unprecedented budget shortfall, we believe that now is the time to commit resources to develop a long-term vision, goals, and objectives to fast forward the economic and social recovery in a way that creates new opportunities well beyond the challenges we face today. We urge you to pass House Bill 1191 and thank you for the opportunity to provide testimony in support.

Respectfully submitted,



Christine Sakuda
Executive Director
Transform Hawai'i Government
email: csakuda@TransformHawaiiGov.org | phone: (808) 321-2811

HB-1191

Submitted on: 2/2/2021 8:38:59 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill BECAUSE IT EXCLUDES WIRELESS. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by excluding wireless in this bill!

HB-1191

Submitted on: 2/2/2021 8:44:04 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Melissa Aiona	Individual	Support	No

Comments:

I support this bill BECAUSE IT EXCLUDES WIRELESS... Hawaii needs to remain safe...without the toxic wireless towers andd atennas . Thank you very much for doing your part in helping to keep us safe .. and our health proteced...

Melissa Aiona

HB-1191

Submitted on: 2/2/2021 8:51:30 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
yuko ishimura	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

DAVID Y. IGE
GOVERNOR



CRAIG K. HIRAI
DIRECTOR

ROBERT YU
DEPUTY DIRECTOR

EMPLOYEES' RETIREMENT SYSTEM
HAWAII EMPLOYER-UNION HEALTH BENEFITS TRUST FUND
OFFICE OF THE PUBLIC DEFENDER

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

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

WRITTEN ONLY
TESTIMONY BY CRAIG K. HIRAI
DIRECTOR, DEPARTMENT OF BUDGET AND FINANCE
TO THE HOUSE COMMITTEE ON ECONOMIC DEVELOPMENT
ON
HOUSE BILL NO. 1191

February 3, 2021
9:30 a.m.
Room 312

RELATING TO BROADBAND SERVICE INFRASTRUCTURE

The Department of Budget and Finance (B&F) offers comments on House Bill (H.B.) No. 1191.

H.B. No. 1191 establishes the Broadband Infrastructure Grant Program (BIGP); amends the Hawai'i Technology Revolving Fund (HTRF) by changing it to the Hawai'i Broadband Infrastructure Fund (HBIF) and changing the types of funds to be deposited into the fund; authorizes the issuance of general obligation bonds for the BIGP; and establishes a fund ceiling of \$10,000,000 for the HBIF at the end of any fiscal year.

Funds from the HBIF would be used to award grants to applicants to extend broadband infrastructure to unserved areas of the State and therefore improve access to broadband services to resident, consumer, and business users across the State. The measure provides that to be eligible, applicants must commit to paying a minimum of 40% of total project costs from the applicant's own funds and be a non-governmental entity. Since H.B. No. 1191 changes the fund type of the HTRF from a revolving fund to a special fund, the measure removes a number of financing sources for the fund, including: moneys received as repayment of loans; investment earnings; royalties;

premiums, or fees or equity charged by the corporation, or otherwise received by the corporation; and loans that are convertible to equity. Instead, the HBIF would be financed by funds appropriated by the Legislature; received from the federal government; received from a county; and received from the private sector.

As a matter of general policy, B&F does not support the creation of any special fund which does not meet the requirements of Section 37-52.3, HRS. Special funds should: 1) serve a need as demonstrated by the purpose, scope of work and an explanation why the program cannot be implemented successfully under the general fund appropriation process; 2) reflect a clear nexus between the benefits sought and charges made upon the users or beneficiaries or a clear link between the program and the sources of revenue; 3) provide an appropriate means of financing for the program or activity; and 4) demonstrate the capacity to be financially self-sustaining. Regarding H.B. No. 1191, it is difficult to determine whether the proposed special fund would be self-sustaining as there does not appear to be any significant source of revenues to support the HBIF aside from appropriations from the Legislature.

Thank you for your consideration of our comments.

LATE

HB-1191

Submitted on: 2/2/2021 9:55:22 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Eric Brandt	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure

fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas.

I work PT as an EMF consultant and I've researched these EMF issues for many hours.

Act with integrity and protect every biological being in Hawaii.

Thank you for protecting our health and welfare by *excluding* wireless in this bill!

Much Aloha, Eric

LATE

February 2, 2021

[HB1191](#) - A Bill for Broadband Grant Program for Underserved Areas - SUPPORT

- *Please accept my apologies if this reaches you just shy of the 24-hour submission window. We just came out of the four-day [EMF Medical Conference](#) and I am just seeing your bill hearing notice now. The facts below are critically important, I hope you will enter the following into the public record. Mahalo.*

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 family here but I care deeply about what happens to Hawaii.

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.

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 is submitting something similar to you.

Please know there is much more to the story with the authoritative quotes she 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 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.

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. Heroux and others 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 though some have to sleep in another room if there are utility "smart" meters pulsing at them near their beds.

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 County. 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.

For today, choosing broadband to the premises and banning 5G is a good place to start, as [Easton, Connecticut](#) just did. Then another good step is to provide education to the public right now via 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.

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](#)

LATE

HB-1191

Submitted on: 2/2/2021 12:57:34 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
A Kathleen Lee	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill to establish a grant program to provide for areas that lack internet services because the public is safe with in-ground fiber optics. We want safety more than anything; plus, it will be more secure protecting Hawaii citizens and their businesses, from cyber attacks. As we know, this is one of the most rapidly growing forms of crime. We do not want more toxic wireless towers and antennas which detract from the pristine Beauty of Hawai'i nei.

Mahalo nui for protecting our health, welfare & businesses by *excluding* wireless in this bill!

April K. Lee, BA

Born in Oahu

Living on The Island of Hawai'i

We want safer, faster, more secure fiber optics everywhere in Hawaii, especially in rural and underserved areas. Fiber optics is a superior way to connect online, far superior to wireless.

LATE

HB-1191

Submitted on: 2/2/2021 2:31:32 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

I support this measure because it excludes wireless. Fiber-optic broadband is the way to go, not toxic antenna cell towers that are a blight on the landscape, noisy, inadequately tested for safety, and will cost the consumer more in increased fees and equipment.

Thank you.

LATE

HB-1191

Submitted on: 2/2/2021 2:52:35 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

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

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

BACKGROUND: This bill establishes a grant program to support broadband in underserved areas and, even though broadband has been redefined to include wireless - and 5G - this bill specifically says that it does NOT include wireless! We love that!

We want safer, faster, more secure fiber optics everywhere in Hawaii, especially in rural and underserved areas. Fiber optics is a superior way to connect online, far superior to wireless.

IMPORTANT: We must track this bill! In the legislative process it's possible the wireless exclusion will be removed! Big telecom is likely pressuring committee members right now to remove that provision. Please specify in testimony that you are supporting this bill **BECAUSE** it **EXCLUDES** wireless. !

Sincerely, Laurie Bogart, LMHC

Charter Communications
Testimony of Felipe Monroig, Senior Director of Government Affairs

COMMITTEE ON ECONOMIC DEVELOPMENT

Hawai'i State Capitol
Wednesday, February 3, 2021, 9:30am

SUPPORT OF H.B. 1191, RELATING TO BROADBAND SERVICE INFRASTRUCTURE

Chair Quinlan, Vice Chair Holt, and Members of the Committee.

Thank you for the opportunity to provide testimony in support of H.B. 1191 which establishes a broadband service infrastructure grant program. The goal is to provide greater broadband connectivity for residents in unserved areas of Hawai'i by promoting the extension of broadband-related infrastructure, in primarily rural areas where the buildout costs are prohibitively expensive because of the low density of housing and commercial opportunities and the resulting small number of potential customers. As demonstrated by the impacts of COVID-19, the need for reliable and accessible broadband connectivity to service these areas has never been greater.

Charter Communications is a dedicated community partner in Hawai'i. As the largest broadband provider in Hawai'i with services available to over 400,000 homes and businesses in all 4 Counties, including Molokai and Lanai, Charter continues to expand its network. As a result of significant network investments, Charter's base broadband speed is 200/10Mbps and we now offer Spectrum Internet Gig (with download speeds of 940 Mbps) in almost all of Hawai'i. Charter continues to significantly invest and provide infrastructure improvements, unleashing the power of an advanced,

two-way, fully interactive fiber network. By moving to an all-digital network, today's Spectrum customers enjoy more HD channels, more On Demand offerings, more video choices than ever before, and the fastest internet speeds and most consistent performance available.

Charter also offers a low cost broadband service for \$17.99/month to eligible low income families and seniors to help bridge the digital divide. At 30Mbps, Spectrum Internet Assist will have a positive impact on the communities we serve in Hawai'i and help to ensure greater access to broadband technology to bridge the digital divide.

Charter strongly supports increasing access to broadband services for residents across the State where service is not available. A properly structured state broadband grant program as outlined in H.B. 1191 will, for example, help all islands, but may be especially useful in Hawai'i Island, which continues to face the greatest challenge primarily due to the lack of adequate infrastructure. With such a program in place, areas like Hāmākua, Puna, Pahoā, Nā'ālehu, Ka'ū and other remote regions will have a chance at access to broadband that they do not currently enjoy.

Because of Hawai'i's unique geography and terrain and the general prices for goods, labor, and materials, the cost of connection is much higher than in some other areas of the mainland United States. By allocating resources to build broadband infrastructure to unserved areas of Hawai'i, H.B. 1191 will help broaden and enhance opportunities in every aspect of peoples' lives through economic development, education, and health care.

To make sure that the money goes to where it is most needed and to ensure proper administration of the funds, we believe that legislation should incorporate the following key principles, which are reflected in H.B. 1191:

- State funds should come from general appropriations or bonds, not sector specific taxes and fees on current broadband customers. A dedicated source of funding best reflects the benefit accrued to the entire state from this investment. Putting in place a state broadband grant program also ensures timely and effective distribution of federal funds, should those be provided for expansion of broadband infrastructure. The fund created by this bill rightly allows for inclusion of federal funds. We also note that this does not prohibit nor impede companies from applying for and receiving broadband infrastructure grants from the federal government, which expressly contemplates working alongside state programs to support filling every gap in broadband access.

- Focus must be on areas which are unserved. The current FCC standard for broadband is 25Mbps download and 3Mbps upload. Any public investment should target resources to areas which are not currently served by broadband at the standards developed by the FCC. This requirement will ensure that funds are invested where they are most needed and the benefit to rural communities will be the greatest.

- A grant program must include open and transparent rules to identify where applicants are seeking state subsidies and a robust challenge process. Public investment should not occur where the private sector has already invested in broadband infrastructure

and service. To guard against a waste of state funds and against duplication of networks and investment where it is not needed, the state's program should include a transparent process which allows adequate time for existing broadband providers to confirm whether an area is already served or to commit to deploying service within a reasonable time such that state funds could be directed to an area in need of assistance.

- The application process should be thorough to weed out unqualified applicants, but at the same time straightforward to avoid burdensome administrative rules that discourage investment; applicants should receive adequate time to complete their investment and the state should provide support to avoid permitting delays that can impede the process. We will continue to work with the legislature to further our shared goal of bringing broadband to unserved areas of Hawaii. Charter respectfully requests the passage of H.B. 1191 to ensure that a public-private policy framework is built to connect unserved areas of Hawai'i with essential broadband connectivity.

Mahalo for the opportunity to provide testimony.

LATE

HB-1191

Submitted on: 2/2/2021 3:32:49 PM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Laura Kahiapo	Individual	Support	No

Comments:

Aloha Chair Quinlan and Members of the Committee on Economic Development,

I SUPPORT this bill *BECAUSE IT EXCLUDES WIRELESS*. We want safer, faster, more secure fiber optics everywhere in Hawaii. We do not want more toxic wireless towers and antennas. Thank you for protecting our health and welfare by *excluding* wireless in this bill!

Mahalo for your consideration.

Aloha,

Laura Kahiapo

LATE

HB-1191

Submitted on: 2/3/2021 9:38:36 AM

Testimony for ECD on 2/3/2021 9:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
mary arizumi	Individual	Support	No

Comments:

Keep us all from harmful to the body - towers.