

November 6, 2019 (Testimony submitted in person)

Honorable Tamara Paltin
Chairwoman Planning and Sustainable Land Use
200 S. High Street, Wailuku, Maui, Hawaii 96793
Testimony submitted in person
CC: Maui County Council/Office of the Mayor

Subject: Public Testimony for November 6 meeting of the Planning and Sustainable Land Use PSLU-42 relating to high-altitude aviation and 5G.

Aloha Honorable Chair Paltin Vice Chair Sinenci and Committee Members,

Mahalo for your service to our County, and mahalo for your time reading and hearing my testimony.

My name is Simon Russell, I represent Hui 'O Mālama 'Āina in the work I do to advocate and educate for sustainable agriculture and a healthy environment.

I do **not** give my consent to be experimented on with fifth generation millimeter wave signals. I do **not** give my consent to be a part of the total surveillance society. The massive harvesting of data that will constitute the internet of things and be hosted on the platform of 5G and will lead to the loss of privacy.

I do **not** give my consent for myself or my children to be harmed by uncontrollable wireless radiation.

For health and privacy reasons, Hui 'O Mālama 'Āina is strongly opposed to Fifth Generation Cellular Towers being installed in Maui County, or 5G drone platforms above Maui County providing service from our stratosphere.

I have expertise in technology that I would like to share with you today.

Part of my educational background is in electronics and computer science, and I previously held a FCC certification as a telecommunications technician.

The good news in the realm of 5G is that it is not on Maui yet. We can stop it from impacting our communities, while at the same time, supporting a safer connectivity to high speed broadband with fiber optics and wired high speed broadband.

From the other side, the problem side we have a novel and toxic technology that the Federal and State government are pressuring our communities across the state to accept.

5G millimeter band beamforming technology and ultra-dense antenna arrays:

For the Gigabit speed bandwidth to be realized by the internet of things and hand-held devices 5G Cellular towers will be placed every 100-300 meters on utility poles and will use millimeter wave beamforming technology to carry the cellular signals. According to testimony submitted to the US Congress, there may need to be up to 250 cell towers per square mile, massively increasing that area's exposure to wireless radiation. Additionally, the 5G regime requires cellular devices to act as routers, receiving and transmitting wireless radiation, exposing anyone and anything that is in proximity to a connected device to the frequency.

Currently under the 4G LTE regime, they can be placed every couple of miles and are high above the ground rather than on utility poles. Under 4G LTE, the antenna arrays are omni directional, meaning the signal transmits in all directions. While 4G is not totally safe, it is orders of magnitudes less powerful.

Under the 5G regime, the millimeter wave beamforming technology will permeate our residential communities, forcing every life form to be subjected to this type of focused energy, that has not even one biological test of safety. If you have ever seen or played laser tag, imagine every "smart device" hand held device and the rest of the internet of things emitting millions of beams of energy that literally pierce every living thing in our environment.

Because the millimeter wave frequency is absorbed by water, it is absorbed by humans, plants and animals, and should be considered toxic until proven otherwise. Absorption of radiation is interaction, and cause for concern.

See a short video on 5G by the Institute for Electrical and Electronic Engineers here:

https://www.youtube.com/watch?v=GEx_d0SjvS0&t=53s

You can see Lorrin Pang MD speaking as a private citizen give a presentation on potential risks of 5G here:

<https://vimeo.com/333630717>

I do not want my family, and especially my children or anyone else exposed to 5G wireless radiation beaming through our communities until it is proven to be safe. Additionally, according to many researchers and scientists there is great harm that will befall our natural ecosystems from this novel and toxic technology.

In spite of that, on June 20 2016 Federal Communications Chairman Tom Wheeler said to the National Press Club:

"Unlike some countries, we do not believe we should spend the next couple of years studying what 5G should be, how it should operate, and how to allocate spectrum, based on those assumptions. Like the examples I gave earlier, the future has a way of inventing itself. Turning innovators loose is far preferable to expecting committees and regulators to define the future.

We won't wait for the standards to be first developed in the sometimes-arduous standards-setting process or in a government-led activity. Instead, we will make ample spectrum available and then rely on a private sector-led process for producing technical standards best suited for those frequencies and use cases. Leadership in networks leads to leadership in uses, which quickly moves across borders."

That policy of not considering the environmental and health impacts before rolling out a technology is unacceptable to the hui I represent, and I am dedicated to changing that policy of non-standardization of toxic and radioactive technology and ignoring potential harm that may befall our environment and its inhabitants.

The risk our communities face is increased and constant exposure to wireless radiation at higher energy levels than ever before across many frequencies.

Please oppose this wireless 5G on Maui and protect our people and our 'Āina and our people's future with safer alternatives to broadband connectivity.

Mahalo for hearing my testimony today

Respectfully submitted,

Me ka ha'aha'a

Simon Russell
Managing Member

Hui 'O Mālama 'Āina LLC

A strong advocate for the 'Āina,
A registered lobbyist with the County of Maui and the State of Hawaii

Ua Mau ke Ea o ka 'Āina i ka Pono



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Aloha Committee Chair Paltin and fellow Council Members,

My name is George Kauhi Purdy IV, for the past 21 years I have been a State Airport Rescue Fire Fighter and resident on the Island of Lanai. I am also a husband, father of 3 and a descendant of native Hawaiians. I was born and raised in Ulupalkua. My roots run deep and Maui County is my home and legacy to cultivate while protecting it.

We are gathered today to discuss planning and sustainable land use related to the use of agricultural zones for high altitude aviation. First of all, what is high altitude aviation and what is its purpose. It's an airborne communication platform protected up in the stratosphere from all weather events. A network powered by battery and solar energy eliminating the use of fossil fuels. It is a vehicle for more stable and dependable wireless communication. I am a first responder and certified FAA UAS remote pilot operator who can tell you wireless communication is crucial for the safety and wellbeing of our residents as well as our responders. Here in Hawaii, our terrain peaks and valleys makes cell towers inefficient for coverage. High altitude aviation carrying 4G or even 1G improves the chance of getting help to those in need enormously. This is only from a safety standpoint. Not to mention the agricultural as well as educational benefits to our young on the island. STEM education will grow by leaps and bounds with this technology helping to fill or even eliminate what our principal calls a "gap" in our kids education and increase the ability for our kids to be successful when leaving for college and the opportunity to compete for jobs upon return. The skies the limit to the possibilities they can explore, analyze, and invent. On Lanai we don't have the privilege of numerous career opportunities. Let's face it. We are mostly a service industry island. Our community and kids need more. We can embrace the evolution of the future while still honoring its past. This project is soft use of the land. No digging, grubbing, or drilling. Everything is temporary that will be able to return the aina back to its original condition. This is a win win for sure. How many bad ideas or developers can say this when their projects expire. This will not leave an empty shopping complex and no renters which creates a ghost town. Please take the time to learn about this project and the benefits it has to offer. Open mind and a fair shot.

What is all this hype causing panic, hysteria, and chaos surrounding 5G? I am not a scientist and will not pretend to be. However, I have done my due diligence in researching the matter. After all I am a father first do I want this around for my children. The answer is YES! Please make your decisions on facts and not hypothesis. Seek out the independent not bought and paid for scientists that have conducted their research and what their findings are. Sustainable communities thrive when they are well educated based on facts and not and feed inaccuracies and innuendo. Communities are built on trust not fear. The project can do its work on less powerful G's. So if the power of G's are a dead issue. The real meat and potatoes of this issue is....Do we want to use agricultural lands for High Altitude Aviation. We all know that Maui County is evolving. Lanai is no longer farming pineapple and Maui is no longer harvesting sugar cane. We have a real chance here to be smart and use a balanced approach to provide the opportunity to utilize lands in unique ways to benefit a community while retaining open

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space. A generation of plantation to aviation equals healthy island for healthy people. I am willing to answer any questions you may have.

Dr. Shiroma

② "Lack of definitive proof that a technology is harmful does not mean the technology is safe, yet the wireless industry has succeeded in selling this logical fallacy to the world. The upshot is that, over the past 30 years, billions of people around the world have been subjected to a public-health experiment: use a mobile phone today, find out later if it causes genetic damage or cancer. Meanwhile, the industry has obstructed a full understanding of the science and news organisations have failed to inform the public about what scientists really think. In other words, this public health experiment has been conducted without the informed consent of its subjects, ~~even as the industry keeps its thumb on the scale.~~

① In 28 March 2018, the scientific peer review of a landmark United States government study concluded that there is "clear evidence" that radiation from mobile phones causes cancer, specifically, a heart tissue cancer in rats that is too rare to be explained as random occurrence.

The National Toxicology Program (NTP)
US Department of Health and Human Services

~~Thus~~ the peer review also found "some evidence" -of cancer in the brain and adrenal glands.

M. [unclear]

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Carol Ann Barrows