

Dawn Huntley

From: Kelly Moran <kelgabmo@gmail.com>
Sent: Tuesday, February 23, 2021 1:44 PM
To: House Innovation, Internet and Technology Committee
Subject: H5148 The Rhode island Broadband Development Program

Hello!

My name is Kelly Moran, and I am writing in favor of H5148, the RI Broadband Development Program.

I am a resident of Newport, RI and graduate of URI where I studied and researched organic chemistry. These days I work as a real estate broker and am very involved in the community and preserving private property rights. I am an advocate for the *safe* advancement of modern technologies so I support this bill for it being a safer, more secure, and more promising step in the right direction for RI business and residents.

As a scientist who has researched the development of 5th Generation wireless (5G), I am immediately concerned with the potential harm that could be caused by the expansion of wireless technologies like 5G. Telecommunication companies are rapidly expanding their networks and offering new technologies with very few studies done on the biological effects of the increased radio frequencies. What science is available shows that existing RF frequencies can have serious biological effects on plants, humans, animals, and even insects and frequencies will significantly increase from here.

Fiber optics have not only proven to be faster and much more secure than wireless, but they are also much safer in regards to the electromagnetic emissions. Critical information can be efficiently and securely transmitted without compromising safety, health, and even private property values due to the need to increase the density of cell towers for technological growth. Maintaining a clean and healthy environment for our residents should be paramount.

Here is why I support FTTP and believe it is superior to wireless technology:

- Runs directly to the home or business and allows data rates up to 1,000 times faster than wireless.
- Allows for more secure and private transmission (as wireless communications can be hacked or surveilled).
- No harmful pulsed radiofrequency/microwave radiation emissions.
- More resilient as continues to work in case of a power emergency (wireless will not run without power for the "small cell" transmitters and towers).
- Capable of transmitting tremendous amounts of data.
- Infinitely upgradable for up to 40-50 years. As the end-point electronics improve, can swap out the electronics to increase the data rate transmitted over the fiber-optic cable.
- Is not an energy guzzler, as is wireless.

Here is a list that summarizes the harms to human health and security, as well as environmental health, from 5G wireless and the Internet of Things that 5G enables:

Health: The robust and growing independent science shows harms to our health from microwave radiation.

Privacy: The invasion of our privacy from the collection and mining of our digital data.

Cyber Security: The fast growing and devastating cyber security risks

Environment: The harms to wildlife, particularly bees, butterflies, and other pollinators.

Energy: The huge energy consumption to produce and power a wireless Internet of Things.

Brains and Humanity: The effects on our brains and humanity from connecting virtually every “thing” to the Internet.

E-waste: The astronomical e-waste that will be generated from connecting virtually every “thing” to the internet.

Conflict Minerals: 5G and the IoT will vastly grow our dependence on conflict minerals, which have brought about the death of close to 6 million people.

Ethics: Ethical issues arising from the IoT. New human rights laws are being considered: How should humans relate to robots and AI? The blurring of what was once a clear definition between technology and humans.

Please consider how the expansion of wireless technologies could affect the livelihood and well being of many Rhode Islanders who rely on the pristine coast and clean landscapes. Fiber optics are a safe and proven step in the right direction without any compromise! Please vote yes on this bill.

Thank you for your time and consideration!

Kelly Moran
Newport, RI

<https://legiscan.com/RI/text/H5148/2021>