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I am asking for improved legislation that will protect Rhode Islanders and the natural world from pulsed microwave radiation.

I request an answer to why legislators are forging ahead with “small” Wireless Telecommunications Facilities when the harms of 5G have been amply documented and exposed (please review at [www.5GFreeRI.com](http://www.5GFreeRI.com)) and when the benefits of Fiber to the Premises are many. Please see comparison below.

Can our elected officials justify the excessive investment?

Can our elected officials risk the liability inherent in such a dangerous deployment?

Can our elected officials affirm that they are upholding the Constitution and their oath to protect the citizens of Rhode Island if they take the path of least resistance by allowing the telecommunications industry to override sound judgment?

How is sWTFs deployment compatible with the push for Green New Deal policies?

Here is a summary of the reasons that FTTP is superior to wireless. Fiber-optics to the premises:

- 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, modulated radiofrequency/microwave radiation emissions.
- More resilient as it 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. Wireless radiation used to connect devices uses 10 times the energy that wired connections do, according to the Institute of Electrical and Electronics Engineers.

Below is a chart 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:

## **Nine ways 5G and the IoT will harm humans, the environment, and Earth**

- **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 humans increasingly inhabiting the cyber world
- **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 being considered; how should humans relate to robots and AI? The blurring of what was once a clear delineation between technology and humans

Respectfully submitted,  
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