WHAT ARE 5G AND THE INTERNET OF THINGS?

The wireless telecom industry is aggressively working to get “small cell” antennas on nearly every lamppost and utility post around the country - potentially beaming hazardous radiation next to, or into our homes, 24/7.

“5G would IRRADIATE EVERYONE, including the most vulnerable to harm from radiofrequency radiation: pregnant women, unborn children, young children, teenagers, men of reproductive age, the elderly, the disabled, and the chronically ill.” Dr. Ronald M. Powell, Ph.D.

WHAT IS 5G?

5g is an abbreviation for “5th generation” wireless technology. Its intended purpose is to provide faster and higher capacity data transmission for video streaming and to carry the massive amount of data that will be generated from the Internet of Things (IoT). That said - no one is yet clear as to how 5g will be achieved, so at present it is being used more as a marketing term than a reality. Nonetheless, 4g-5g-“small cells” are currently being deployed by the thousands around the US.

What is clear is that 5g will include the higher Millimeter Wave frequencies never before used for public Internet and communications technology. These waves do not travel easily through buildings so will require millions of new communications towers. The wireless telecom industry is aggressively working to get “small cell” antennas on nearly every lamppost and utility post around the country - potentially beaming hazardous radiation next to, or into our homes, 24/7.

In light of the robust and ever growing independent science showing adverse health effects from radiofrequency microwave radiation, the densification of our neighborhoods with 5G-infrastructure may prove to be a very ill-conceived idea.
WHAT IS THE INTERNET OF THINGS?

The Internet of Things (IoT), as being marketed and sold to the public, is the notion of wirelessly connecting every “thing” possible to the Internet - machines, appliances, objects, and devices. In addition, the IoT includes Artificial Intelligence (AI), Augmented Reality (AR), robots, and “enhanced humans” (humans with some form of technology implanted or integrated into their biology to “enhance” human characteristics or capabilities). IoT sensors and surveillance cameras will pepper our communities as well.

A sampling of IoT products currently being manufactured include driverless cars, smart clothing, toasters, coffee makers - even diapers, and pacifiers for babies will be made “smart.” There are “smart” mattresses (with “infidelity detection systems”), “smart” toothbrushes to record how well you brush your teeth, WiFi connected pills to report data to your physician, and the IoT even offers sex-bots, bluetooth tampons, and baby pods mothers can insert to serenade their unborn baby.

Every IoT “thing”, including robots, sensors, surveillance cameras, and Augmented Reality, will generate personal usage-data, which will be mined, stored, and used by government, law enforcement, and industry.

Every IoT “thing”, including robots, sensors, surveillance cameras, and Augmented Reality, will irradiate our homes and communities 24/7 with hazardous frequencies of pulsed microwave radiation.

*Sound inviting? To many, the Internet of Things is quite distasteful!*
ON THE OTHER HAND - “FIBER OPTICS ARE SAFE, FAST, RELIABLE, AND FAR MORE CYBER-SECURE.”
Dr. Ronald M. Powell, Ph.D.

Although government and industry promote the Internet of things as the panacea for all ills, the IoT itself creates a plethora of problems for humans, wildlife, and our Earth.

The IoT will adversely impact

- Health
- Environment
- Cyber security
- Privacy
- Energy consumption
- Our brains and our humanity
- E-waste
- Conflict minerals
- E-factory workers’ conditions
- Toxic materials and run-off
- Jobs

“Right now, plans are being implemented at the FCC and at least 17 state legislatures [as well as through federal legislation] to block cities from constraining uses of their rights-of-way by private cellular companies for 5G deployments that — you guessed it — are coming any day now.... This nationwide effort is aimed at, effectively, privatizing public rights of way.” - Susan Crawford Prof. of Law Harvard University
After researching 5g and the IoT, you may find that the hoped for benefits do not outweigh the downsides, and you may decide you do not wish to buy into the IoT, both figuratively and literally.

**WHAT YOU CAN DO**

- Call or write to your federal senators and ask them to put a hold on S 19, the MOBILE NOW Act.
- Check if your state has legislation that would preempt local zoning rights when siting 4G/5G infrastructure, and if so, urge your legislators to oppose it.
- Educate your local officials and neighbors about “small cells,” and attend all public hearings for cell tower, “small cells”, or Distributed Antenna System (DAS) installations in your community.
- Contact your state’s “League of Cities” or urge your City Council to do so, and see if they will work with you to protect local zoning rights.

For more information on health effects from 5g and the IoT please see
https://ehtrust.org/?s=5g
https://scientists4wiredtech.com
A 5G Wireless Future – Will It Give Us a Smart Nation or Contribute to an Unhealthy One?

For further information about 5g-deployment, please read
https://backchannel.com/handcuffing-cities-to-help-telecom-giants-7d13cbb600b7
https://medium.com/@omarmasry

For further discussion about the downsides of 5g and the IoT, please see www.whatis5g.info.

A link to this handout can be found at http://whatis5g.info/wp-content/uploads/2017/05/Handout-for-5g-and-the-IoT-final-version.pdf
A link to a companion handout “Cheat Sheet” for Opposing 4g/5g “Small Cells” can be found at http://whatis5g.info/wp-content/uploads/2017/05/Opposing-_Small-Cells_-_Cheat-Sheet-Online-.pdf

http://whatis5g.info
rethinking5g@whatis5g.info