



“Cheat Sheet” for Opposing 4g/5g Wireless “Small Cells”

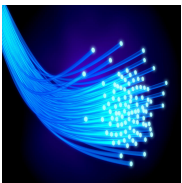
(This “Cheat Sheet” is intended primarily for raising public awareness, rallying support, interacting with media, and communicating with elected representatives. When up against Telecom Industry lawyers, strategies must be carefully honed to work around the Telecommunications Act of 1996.)

THE WIRELESS TELECOM INDUSTRY IS AGGRESSIVELY SEEKING TO DEPLOY 4G/5G “SMALL CELLS” AROUND THE COUNTRY, PURPORTEDLY IN RESPONSE TO “PUBLIC DEMAND” FOR FASTER DATA TRANSMISSION AND THE INTERNET OF THINGS (IOT) ALTHOUGH THE VAST MAJORITY OF PEOPLE DON’T EVEN KNOW WHAT 5G AND THE IOT ARE.

WORKING AT BOTH THE FEDERAL AND STATE LEVELS, THE WIRELESS INDUSTRY IS PUSHING LEGISLATION TO REMOVE “IMPEDIMENTS” TO 5G “SMALL CELL” DEPLOYMENT. AT THE LOCAL LEVEL, INDUSTRY CONTINUES THEIR LEGACY OF EMPLOYING A VARIETY OF INCENTIVE AND PRESSURE TACTICS TO ACHIEVE THEIR AIM.

THIS HANDOUT DELINEATES TWO MAIN PROBLEM AREAS WITH “SMALL CELLS”

1. The impact on our **health and the environment** from hazardous Radiofrequency/Microwave radiation next to our homes and in our communities.
2. The **preemption of local zoning rights** in cell tower siting decisions



(Please note that FIBER OPTIC CABLES to every home and business in lieu of wireless “small cells” would eliminate the vast majority of objections. Fiber is safe, reliable, fast, cyber secure, and would be far less likely to blemish or obstruct local rights of way.

1. THE IMPACT ON OUR HEALTH AND THE ENVIRONMENT FROM 5G

“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

THOUSANDS OF [INDEPENDENT SCIENTIFIC STUDIES](#) HAVE SHOWN THAT WIRELESS RADIATION CAUSES DNA DAMAGE, BLOOD-BRAIN BARRIER DISRUPTION, CELLULAR STRESS, AND ALTERED HORMONES. EFFECTS CAN INCLUDE NEUROLOGIC, CARDIOLOGIC, GENETIC AND REPRODUCTIVE, IMMUNE SYSTEM DISRUPTION, MELATONIN SUPPRESSION, MIGRAINES, INSOMNIA, CANCER AND MORE. GIVEN THE STATE OF THE CURRENT *INDEPENDENT* SCIENCE, DEPLOYING 4G/5G “SMALL CELLS” COULD UNDERMINE THE VERY POTENTIAL FOR HEALTHY LIFE. THESE “SMALL CELLS” WOULD LIKELY ALSO CONTRIBUTE TO THE DECIMATION OF BEE, BIRD, BUTTERFLY AND OTHER POLLINATOR POPULATIONS.



The National Toxicology Program (NTP) at the National Institutes of Health (NIH) recently published the “Partial Findings” of a [\\$25 million multi-year study](#) of the impact of cell phone radiation on human health. The study found that after 2 years of cell phone radiation exposure, 1 in 12 male rats developed malignant brain tumors, heart tumors, and precancerous lesions.

The NTP regarded its findings as so important to world health that it issued the “[Partial Findings](#)” as soon as it could (May 2016) and formally presented those findings at an [international conference](#) (BioEM2016, June 2016) attended by 300 scientists from 41 countries.

A few short weeks later, the [FCC voted to approve](#) a move to open up more broadband spectrum than has been used cumulatively in the history of wireless communications.

Research on the higher millimeter wave frequencies, which will be used in 5G, shows the [sweat ducts absorb high levels of this radiation](#). The military’s [Active Denial System](#) use millimeter wave frequencies, which cause [excruciating burning sensations](#).

CALL FOR PRE-MARKET STUDIES ON HEALTH AND ENVIRONMENTAL IMPACTS BEFORE ROLLING OUT 5G TECHNOLOGIES!



REEVALUATE FCC’S ANTIQUATED “SAFETY” STANDARDS, WHICH ARE NOT PROTECTIVE OF HEALTH!

AS DR. CINDY RUSSELL [STATES](#), CALL FOR AN “INDEPENDENT MULTIDISCIPLINARY SCIENTIFIC AGENCY TASKED WITH DEVELOPING APPROPRIATE SAFETY REGULATIONS,

PREMARKET TESTING AND RESEARCH NEEDS IN A TRANSPARENT ENVIRONMENT WITH PUBLIC INPUT.”

For further information please see:

<https://ehtrust.org/?s=5g>

<http://www.sbwire.com/press-releases/the-internet-of-things-poses-human-health-risks-scientists-question-the-safety-of-untested-5g-technology-at-international-conference-779643.htm>

<http://whatis5g.info/wp-content/uploads/2017/05/5G-Cindy-Russel-MD-Overview-of-Dangers-5G.pdf>

<https://www.scribd.com/document/339826676/Why-We-Should-Oppose-5G-on-Health-Grounds>

<http://scientists4wiredtech.com>



OPPOSITION TO 4G/5G “SMALL CELLS” TO PRESERVE LOCAL ZONING RIGHTS

(Many of the following statements are taken verbatim, or adapted, from “Small cell wireless talking points for HF739/SF561,” a document put out by the League of Minnesota Cities. Please note that although legislation may vary slightly from state to state, the wireless industry aims to keep siting laws as consistent as possible around the country, so legislation will likely be largely the same in all states.)

Public Rights of Way (PROW) is a limited resource and cities are, and should remain, responsible for making sure that said resource is properly and consistently maintained.

Cities must continue to exercise full authority to consider public health, safety, and welfare. That authority includes issues of aesthetics and property value.

New towers, poles, boxes, or similar facilities installed in rights of way adjacent to public roads, present public health and safety issues that should be addressed by local governments and not risk being overlooked by automatic approval processes.

Referring to SB 649 (the California bill to “streamline” 5g-deployment), The League of California Cities [states](#), “This proposal unnecessarily and unconstitutionally strips local authority over public property and shuts out public input and local discretion by eliminating consideration of the aesthetic and environmental impacts of ‘small cells.’”

The League of California Cities [states further](#) that a "small cell" would include other equipment such as, “...electric meters, concealments, telecom demarcation boxes, ground-based enclosures, battery backup power systems, grounding equipment, power transfer switches, cutoff switches, cables, or conduits.” And that the “...cumulative size specifications of all the small cells and associated equipment far exceed the perceived impacts from a single cell.”

STATE BILLS INTENDED TO STREAMLINE “SMALL CELL” SITING DECISIONS WOULD LARGELY

- ALLOW FOR THE PLACEMENT OF CUMBERSOME CELL SITES NEARLY ANYWHERE. EQUIPMENT AT SUCH SITES WOULD INCLUDE “SMALL CELLS”- POTENTIALLY AS LARGE AS [60 “SMALL PIZZA BOXES,”](#) ALONG WITH REFRIGERATOR-SIZED CABINETS AND LARGE COOLING FANS ON STREETS AND SIDEWALKS IN FRONT OF HOMES, NEXT TO BEDROOM WINDOWS, OR ON HISTORIC BUILDINGS, **WITH NO CONSIDERATION FOR NOISE, LIGHTING, DESIGN, OR FISCAL IMPACTS.**
- ALLOW FOR SUBSTANTIAL CHANGES IN HEIGHT, BULK, AND SIZE OF POLES AND EQUIPMENT (IN THE CASE OF CITY-OWNED POLES), PERMIT A CARRIER TO REPLACE AN EXISTING 30-FOOT TALL UTILITY POLE WITH ONE THAT IS 120 FEET TALL
- PUT NO LIMIT ON THE NUMBER OF “SMALL CELLS” ALLOWED PER PROPERTY
- REMOVE A LOCALITY’S RIGHT TO REQUIRE A WIRELESS CARRIER TO CONSIDER ALTERNATIVE DESIGNS OR LOCATIONS FOR THEIR EQUIPMENT
- NOT ADDRESS THE EFFECTS OF A “SMALL CELL” FACILITY ON AN HISTORIC DISTRICT OR BUILDING
- HAVE NO IMPACT ON THE TYPE OF BROADBAND PEOPLE **ACTUALLY** NEED WHICH IS — CELL PHONE COMMUNICATION, TEXTING, AND ACCESS TO THE INTERNET (5G NOT NEEDED FOR ANY OF THESE!)

- “STRIP LOCAL GOVERNMENT OF THE AUTHORITY TO PROTECT THE QUALITY OF LIFE OF ITS RESIDENTS, AND TO PROTECT PUBLIC PROPERTY AND THE PUBLIC RIGHT-OF-WAY FROM RELATIVELY UNCONSTRAINED ACCESS BY SMALL CELLS.” LEAGUE OF CALIFORNIA CITIES

For further information please see:

<http://whatis5g.info/wp-content/uploads/2017/04/SB-649-Hueso-Wireless-telecommunications-facilities-OPPOSE-1.pdf>
<http://www.lmc.org/media/document/1/talkingpointssmallcellwireless.pdf?inline=true>
<http://www.lmc.org/media/document/1/celltowerssmallcelltechanddas.pdf?inline=true>
<http://www.lmc.org/media/document/1/factsheetsmallcellwireless.pdf?inline=true>
<https://backchannel.com/handcuffing-cities-to-help-telecom-giants-7d13cbb600b7>
<https://medium.com/@omarmasry>

A FEW FINAL THOUGHTS:

AMERICANS ARE DEFINITELY NOT “DEMANDING” 5G AND THE IOT, AND MANY PEOPLE EVEN FIND THE NOTION OF AN IOT QUITE DISTASTEFUL!



MANY CITIZENS VALUE THEIR RIGHT TO *NOT* BE SUBJECTED TO WARRANTLESS SURVEILLANCE FROM THE COLLECTION AND USE OF THE INCREASINGLY DENSE STREAM OF DATA “EXHAUST” EMANATING FROM THE INTERNET OF THINGS.



MANY U.S. CITIZENS ARE AWARE OF THE HUGE CYBER SECURITY RISKS BROUGHT ON BY WIRELESS CYBER PHYSICAL SYSTEMS, SUCH AS OUR ELECTRIC GRID, THAT LEAVE US HIGHLY VULNERABLE TO CYBER ATTACK.

MOST IMPORTANTLY, AMERICANS CHERISH THEIR INHERENT RIGHT, AND THE RIGHT OF ALL LIFE TO NOT BE IMPOSED UPON IN THEIR VERY BODIES BY THE HAZARD OF THE MOST CONCENTRATED IRRADIATION OF LIVING BEINGS FROM RF/MW RADIATION DEPLOYMENTS IN THE HISTORY OF HUMANKIND.

For information on how to oppose the soon to be voted on Federal bills S 19 and S 88 please see <http://whatis5g.info/action/2017/03/2116/>

State bills pending or passed that are broadly aimed at preempting local zoning rights are currently in AR, AZ, CA, CO, FL, HI, IA, IL, IN, KS, MN, MO, NB, NC, NE, OH, PA, RI, TX, VA, and WA.

A link to this handout can be found at http://whatis5g.info/wp-content/uploads/2017/05/Opposing_Small-Cells_Cheat-Sheet-Online-.pdf

A link to a companion handout What Are 5g and the Internet of Things can be found at <http://whatis5g.info/wp-content/uploads/2017/05/Handout-for-5g-and-the-IoT-final-version.pdf>

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