

Dear Sedona Officials:

June 1, 2017

It is essential that you vote NO on all 5G wireless proposals and applications. 5G is an unnecessary taking of public funds and property values, alongside losses of public health and safety, and human and agricultural productivity. Sedona has strong interest in protecting its economic base and residents' and visitors' freedom from physical injury and impairment. The 4G/5G Distributed Antenna System (DAS) would result in scientifically established hazardous radiation exposure with often immediate and therefore provable adverse effects, particularly immediate neurological and cardiologic effects.

DAS 5G involves telecoms installing powerful microwave radiation antennae, misleadingly called "small cells" to conceal their radiation power and concentration, on light poles and utility poles in the public right of way. Poles may be only 15-20 feet from homes and offices. Thousands of these antennae and large power supplies would be placed on residential blocks and farms, deploying radio frequency / microwave (RF/MW) radiation penetrating homes and bodies 24/7/365 forever.

Pulse-modulated RF/MW radiation, particularly this close to homes, offices and farm animals, is a "hazard", as acknowledged by IEEE and FCC in 1991 in the guideline-setting process.

Although proponents claim a financial bonanza from DAS 5G deployment, there is no evidence to support it. In fact, the Russians refused 5G as badly engineered (as also US engineers have admitted) and instead provided fiberoptics, which works much better, to all homes and apartments in large cities. Furthermore, cell phones are a mature industry: everyone who wants a cell phone already has one.

We oppose 5G based on health and agricultural science, with human and animal physical injuries and impairments, violation of federal and state laws, and violation of the powers of local government.

Health and agricultural science, and physical injury/impairments to human, animals, insects:

The Chair of the original FCC guideline Committee himself (John Osepchuk) acknowledges >20,000 scientific studies, with immediate, short-term and/or long-term adverse effects from RF/MW radiation.

5G RF/MW radiation has a 20-inch wave that penetrates the body deeply and is particularly harmful to babies and children. Four wavelengths, each 2-4 inches, are optimally absorbed by the human brain, heart, liver, thyroid, kidneys, and reproductive organs, impairing their functions. Effects include headaches, insomnia, tinnitus, heart arrhythmia, suppressed melatonin production (essential for sleep, productivity and the immune system), DNA damage and much more. The final ten simultaneous wavelengths of 1/10 to 1/2 inch target the eyes, ears and skin, and fall within the resonance of pollinating insects' antennae, producing bee colony collapse. The U.S. National Institutes of Health, National Toxicology Program's 16-year, \$25 million study concluded in 2016 that cell phone RF/MW radiation causes cancer of the brain (glioma) and the heart (schwannoma). 5G radiation is even worse.

Incredibly, no monitoring of actual radiation emissions from 5G antennae in homes or public places is intended. The relevant FCC guideline was based in fraud from the start and has not been updated since 1996 to reflect current scientific knowledge. It does not protect against biological harm, and is based on a false absorption model of a doll head filled with water! It utterly fails to protect children, whose brains are still developing and whose skulls are thinner than an adult skull. Studies show that RF/MW radiation even less potent than 5G is harmful to every human, animal, insect and plant.

Proponents misrepresent the Telecommunications Act of 1996 (TCA) as preempting all state and local regulation of wireless facilities. State and local governances are preempted only from regulating the "placement, construction, and modification" of wireless facilities based on their "environmental effects". Preemption includes neither health effects nor health science. Nor is regulation of operations preempted on any basis. State and local governments remain authorized and obligated to regulate every activity not preempted by TCA, and on every basis not preempted.

Violation of federal laws:

Allowance of any 5G wireless facilities would not only violate TCA: it would violate the Americans with Disabilities Act (ADA) and the Federal Fair Housing Act. These laws guarantee equal access for all, but 5G would make public places and federal housing, not to mention *all* housing, uninhabitable for already injured, impaired and/or electromagnetically sensitive (EMS) persons. Sedona says it requires compliance with ADA, but given 5G's multiple simultaneous wavelengths, its intensities, and its 15-degree, near-maser (direct-energy weapon) arc of radiation concentration, compliance is impossible.

This public meeting came up suddenly today, apparently without proper public notice, and may be in violation of Sedona laws and due process.

Sedona must protect health, safety, agriculture and its own economy. 5G would sacrifice it all, with resulting chronic health problems and loss of productivity by some degree to all Sedonans, right where they live and work, and the permanent loss of agricultural pollinators. Please oppose 5G throughout Sedona now. The Federal TCA authorizes you so to do.

Thank you.