



5G From Space: 20,000 Satellites To Blanket The Earth

Technocrat Elon Musk will use SpaceX to launch 12,000 satellites alone. Although data has zero mass, land-based plus sky-based 5G will be teeming with constant rivers of data while blanketing humanity with questionable radiation. □ TN Editor

Public attention about 5G has been focused on the plans of telecom companies to install millions of small cell towers on electric utility poles, on public buildings and schools, on bus stop shelters, in public parks, and anywhere they want in national parks and on federally owned land.

In local urban communities there would be a cell tower approximately every 500 feet along every street.

As bad as these small cell towers might seem from the standpoint of constant exposure to radio frequency (RF) radiation in close proximity to the source, perhaps an even more alarming prospect will be the beaming of millimeter length microwaves at the earth from thousands of new

communication satellites.

The FCC gave approval to SpaceX on March 29, 2018, to launch 4,425 satellites into low orbit around the Earth.

The total number of satellites that is expected to be put into low and high orbit by several companies will be 20,000 satellites.

5G will use Phased Array Antennas to shoot Beams of Radiation at Cell Phones

These satellites will use the same type of phased array antennas as will be used by the ground-based 5G systems.

This means that they will send tightly focused beams of intense microwave radiation at each specific 5G device that is on the Earth and each device will send a beam of radiation back to the satellite.

Previous generations of RF cellular communication used large antennas to send a blanket of radiation in all directions. The lower frequencies they used and the broad distribution of microwaves limited the numbers of cellular devices that could connect through an individual tall tower.

The much shorter length microwaves used for 5G will make it possible to use small phased array antennas to send and receive signals.

Phased array antennas consist of clusters of hundreds of tiny antennas that work together to shoot a ray of energy at a target just like a bullet. A cluster of these tiny antennas can be arranged in a 4 inch by 4 inch matrix.

The rays of microwaves they produce will be strong enough to pass through walls and human bodies. If they were not strong enough to do this, then everyone with a 5G smartphone would have to stand outside when using the devices.

Each 5G product will also have multiple phased array antennas which will be used to create a powerful beam of radiation back to the 5G devices mounted on electrical utility poles or toward a specific satellite

in space.

These beams of radiation will also need to be strong enough to pass through walls and human flesh such as a hand or head to reach the intended destination.

This means that if you are in a crowded location, such as an airport or on a train, there will be hundreds if not thousands of invisible beams of radiation flying through the environment at the speed of light.

As people move in that environment, their bodies will be penetrated by numerous beams of radiation as they walk or as other people walk around them with their 5G smartphones.

5G Phones will be much more Powerful than Previous Phones

The effective radiated power of the 5G phased array antennas in phones will be 10 times more powerful than 4G phones.

No one will be free from exposure.

In addition, 5G beams of microwave radiation will be received and transmitted from new computer equipment, household appliances, and automobiles.

Stationary equipment such as Wi-Fi hubs in homes and offices will be permitted to use microwave beams that are 15 times stronger (300 watts) than the signals from 5G phones or 150 times stronger than 4G phones.

Why is 5G so Much More Dangerous than Previous Microwave Communication Systems?

Arthur Firstenberg, author, researcher, and advocate for limiting RF exposure from the environment, explains the analysis of 5G radiation that was published in Microwave News in 2002. He stated:

When an ordinary electromagnetic field enters the body, it causes charges to move and currents to flow.

But when extremely short electromagnetic pulses enter the body [5G], something else happens: the moving charges themselves become little antennas that re-radiate the electromagnetic field and send it deeper into the body.

These re-radiated waves are called Brillouin precursors.

They become significant when either the power or the phase of the waves changes rapidly enough.

5G will probably satisfy both requirements. This means that the reassurance we are being given—that these millimeter waves are too short to penetrate far into the body—is not true.

5G Satellites Will Fill the Skies

These are the companies with the biggest plans to deploy satellites:

- SpaceX: 12,000 satellites
- OneWeb: 4,560 satellites
- Boeing: 2,956 satellites
- Spire Global: 972 satellites

Arthur Firstenberg describes the plans of corporations who want to use 5G technology. He states:

Honeywell has already signed a memorandum of understanding to become OneWeb's first large customer—it plans to provide high-speed Wi-Fi on business, commercial, and military aircraft throughout the world.

SpaceX would like to provide the equivalent of 5G to every person on the planet.

Ground-based 5G Implementation

Ground-based 5G systems are already being implemented in dozens of major cities right now. Plans are being approved by hundreds of other cities, which will allow implementation in 2019 and beyond.

As I explained in my previous articles, cities do not have the right to “say no” to 5G. FCC regulations prevent cities from objecting on the basis of health concerns - they only can speak to issues of esthetics and the practical matter of the placement of equipment.

They are required to “say yes,” and they better do it quickly, or telecom companies will threaten them with legal action for obstructing their plans.

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