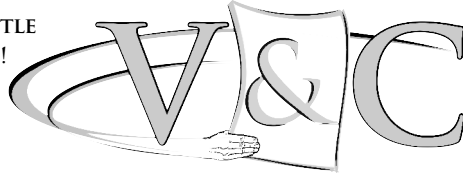


# VOICE AND COUNTERVOICE

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## HAND-TO-HAND EXPRESS

THE PEOPLE HAVE A RIGHT TO VOICE AND COUNTERVOICE

~ No. 24/18: WARNING OF 5G ~

### INTRO

5G is the new mobile communications generation to be launched in Switzerland and the EU countries by 2020. The new network will bring more data capacity to the consumer, allow autonomous driving of vehicles thanks to ultra-short response time and will process huge amounts of data in the industry. According to the mobile communications lobby, humanity is on its way out of the "technological stone age", but at what health price? This V&C shows why 5G must be rejected and this development stopped.

The Editorial Office (ch.)

### 5G radiation - uncontrolled experiment?

**hw.** The fifth generation (5G) of mobile communication technology will be 400,000 times more powerful than the second generation (2G), which started the era of digital radio in 1992. 5G will transmit in the microwave range, which are electromagnetic waves in the frequency range between 1 to 300 GHz. The existing 2G, 3G and 4G networks transmit in the range from 790 megahertz (MHz) to a maximum of 2.6 gigahertz (GHz). 5G is also supposed to use so-called millimeter waves up to 200 GHz. Such high frequency microwaves are so short that they can be absorbed through the skin. A study by physics professor Yuri Feldman of the Hebrew University of Jerusalem concludes that sweat glands attract the 5G radiation like antennas and are "cooked" by them. He demands that potential health threats be clarified prior to the introduction of the 5G standard. If not, humanity will be exposed to a "gigantic uncontrolled experiment"! [1]

**"If these devices and antennas with 5G technology fill the public space, they will affect everyone, including the more susceptible members of the public: babies, pregnant women, the elderly, the sick and electro hypersensitive individuals. Potentially, if 5G Wi-Fi is spread in the public domain we may expect more of the health effects currently seen with RF/microwave frequencies including many more cases of hypersensitivity (EHS), as well as many new complaints of physical pain and a yet unknown variety of neurologic disturbances."** [2]

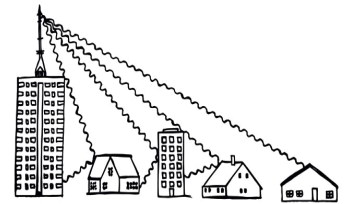
Dr. Yael Stein from the Hadassah Medical Center in Jerusalem

### Massively higher radiation exposure due to 5G

**hw/dd.** The Swiss association Gigahertz.ch has been campaigning for years to protect citizens from the harmful effects of electromagnetic radiation. The president of Gigahertz, Hans-Ulrich Jakob, followed up on the question: How high are the frequencies that 5G needs for the huge amounts of data to be transferred and what does it mean regarding radiation exposure to humanity and the environment? He examined a writing from the Swedish company Ericsson, which will supply the equipment for 5G base stations including antenna systems to Swisscom: Ericsson supplies 5G base stations for the frequency

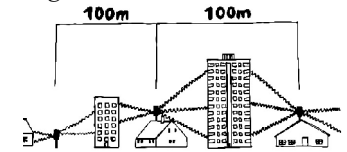
ranges 3.6 and 28 gigahertz. These are wavelengths of 8.3 cm respectively 1.15 cm at 28 GHz. The rule of thumb is: If the wavelength is shorter than the wall is thick, (almost) nothing passes through it anymore. The following drawings show how Ericsson and Swisscom want to outsmart this physical disadvantage:

*In the previous propagation mode of mobile radiation in the 2G, 3G and 4G mode, care was taken not to directly radiate at buildings, but over them, in order to provide as large a zone as possible. Behind the buildings there is a radio shadow, causing a poorer connection quality. An antenna must therefore be placed as high as possible.*



**With 5G, everything will become different:**

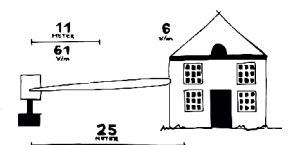
*Because of the difficulty of penetrating walls with 3.6 respectively 28 GHz, 5G must be virtually radiated on every individual facade. This means that at least every 100 m, a mobile radio antenna must be installed, at as low a height as possible.*



100 times more data at 100 times higher speed is promised. We were always puzzled how this would work. Now we know.

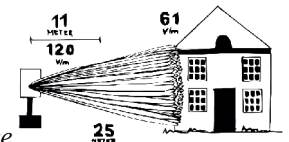
**Today's radiation exposure at 4G:**

*1 radiation beam per transmission direction. After 25 m, the electric field strength is 6 V/m. In the safety zone around the antenna up to 11 m, the electric field strength is 61 V/m.*



**Expected radiation exposure at 5G:**

*Instead of one beam 64 beams, 8 each side by side and 8 each on top of each other. The electric field strength in the safety zone increases to 120 V/m up to a distance of 11 m. After 25 m, the electric field strength is still 61 V/m.*



The ICNIRP, which calls itself the International Radiation Protection Commission, which in fact is not a public authority, but a mere private association, has made its limit recommendations 5G-capable. These were increased without further ado from 137 V/m to 200 V/m for workplaces and from 61 V/m to 90 V/m for the general population. [3]

**Sources:** [1] [www.zeitenschrift.com/artikel/5g-mobilfunk-globaler-mikrowellenherd-ohne-entrinnen](http://www.zeitenschrift.com/artikel/5g-mobilfunk-globaler-mikrowellenherd-ohne-entrinnen) | <https://de.wikipedia.org/wiki/Mikrowellen> [2] [www.zeitenschrift.com/artikel/5g-mobilfunk-globaler-mikrowellenherd-ohne-entrinnen](http://www.zeitenschrift.com/artikel/5g-mobilfunk-globaler-mikrowellenherd-ohne-entrinnen) | <https://ehitrust.org/letter-fcc-dr-yael-stein-md-opposition-5g-spectrum-frontiers/> [3] [www.gigahertz.ch/dringende-warnung-vor-5g](http://www.gigahertz.ch/dringende-warnung-vor-5g) | [www.zukunftsmministerium.bayern.de/imperia/md/content/stmas/stmas\\_internet/arbeitschutz/elektromagn-felder.pdf](http://www.zukunftsmministerium.bayern.de/imperia/md/content/stmas/stmas_internet/arbeitschutz/elektromagn-felder.pdf)

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**Microwave radiation can be used as a weapon**

*ch.* The “Active Denial System” (ADS) was developed back in the 1980s. This is a US-American non-lethal energy weapon that generates strong and focused microwaves of a 95 gigahertz frequency, which can be directed with an antenna towards humans or other targets from a distance of more than 500 meters. The electromagnetic radiation emitted by ADS has a very high energy density and penetrates the skin by 0.4 mm. The high radiation energy heats the water molecules in the skin within seconds to about 55 degrees Celsius (130 F). This is experienced as a pain stimulus by the attacked person and is supposed to cause them to flee. Presumably 5G radiation is going to have a lower radiation energy, but the health protection of citizens is not guaranteed, because it seems the profits of the mobile communications industry has a higher priority once again. [4]

**Total surveillance via 5G and Wireless Lan technology**

*hvb.* The coalition agreement of the German federal government stipulated that all cities should be converted into so-called “smart cities”. At the core of this is the redesign of urban life and urban infrastructure using technologies such as 5G and Wireless Lan. These Smart City plans received the Big Brother Award this year. According to the founders, the Big Brother Award is given to authorities, companies or organizations that infringe on the privacy of individuals or make personal data available to third parties. So, the Smart City concept of the federal government is advertising for the “Safe City”, the sensor-paved, totally monitored, remote-controlled and commercialized city. By doing so, Smart City has two main aspects: The industry wants the data for the purpose of consumption control and production planning and the states organs for the political control of society. In the coalition agreement of the federal government dated February 7th, 2018, data protection was repealed with the following wording: “We aim to enshrine the free movement of data as the fifth dimension of free movement.” Will the totalitarian surveillance state become reality, according to George Orwell’s book “1984”? [7]

**Trump and Gates do not want 5G radiation**

*ch.* In the state of Florida a law had been passed, which allows wireless telecommunication service providers to place 5G-antennas everywhere without authorization, except though Palm Beach, the residence among others of the billionaire Bill Gates and US-American president Donald Trump. According to Tom Bradford, a city administrator, the ban is temporarily blocking any applications to install wireless communications on public properties. This exception was justified with the excuse that the installation of the antennas would disfigure the cityscape. And against this would exist an opposition of the residents. It remains an open question as to whether the prohibition of 5G installation is to prevent total surveillance or serious health damage by high frequency microwave radiation in Palm Beach. However, they do the right thing in renouncing 5G until scientific studies exist showing its health impact on human beings! [8]

**“We, the undersigned, more than 180 scientists and doctors from 36 countries, recommend a moratorium on the fifth generation, 5G, telecommunication roll out regarding the potential hazards to human health and the environment. These should be fully investigated by scientists independent from the industry. 5G will substantially increase exposure to radiofrequency electromagnetic fields (RF-EMF) on top of the 2G, 3G, 4G, Wi-Fi, etc. for telecommunications already in place. RF-EMF has been proven to be harmful to humans and the environment.” [5]**  
*Appeal from over 180 scientists and physicians from 36 countries, from Sept. 12th, 2017, about the introduction of 5G, directed to the EU countries.*

**5G soon coming from space, too**

*lw.* In addition to the construction of a 5G network on the ground, there is a proposed satellite based 5G network transmitting from space. In February 2018 the billionaire and Tesla boss Elon Musk presented his planned global, closely interlinked internet satellite network under the project named “Starlink”. It is supposed to allow fast internet access to millions of people and would consist of a total of 11,943 satellites – this would mean about six times as many satellites as currently are orbiting the earth. In an Open Letter several doctors and physicists appeal to Mr. Musk to abort his project. They wrote: “Most likely your satellite project is already well-advanced. But, even if there is already a lot of money invested, it is important to consider this: It may be only a question of time until the facts will no longer be able to be ignored regarding the health hazard of mobile communication and in particular of 5G mobile communication [...] It is extremely important to seriously examine the possible health damages to humanity, and most likely to reverse the course of development.” [6]

**Closing Point •**  
*Regarding the question: “What can we do against this increasing radiation exposure?”, the lawyer Dafna Tachover who works in USA and Israel gave the following answer: “This is the action we should take: we should make it clear to those government people when we talk about wi-fi in schools, the school principals, who have the personal responsibility and liability to protect children’s health - to make sure they know they will be found personally liable for the damage they cause. They have a position of trust, and they betray that trust. And they should be found liable. It should be civil and criminal liability.” [9]*  
*The editors (ch.)*

**Sources:** [4] [https://de.wikipedia.org/wiki/Active\\_Denial\\_System](https://de.wikipedia.org/wiki/Active_Denial_System) [5] [http://kompetenzinitiative.net/KIT/wp-content/uploads/2017/09/Scientist\\_5G-Appeal\\_de\\_sept\\_2017.pdf](http://kompetenzinitiative.net/KIT/wp-content/uploads/2017/09/Scientist_5G-Appeal_de_sept_2017.pdf) [6] [www.gaebler.info/2018/07/5g-mobilfunk/](http://www.gaebler.info/2018/07/5g-mobilfunk/) | [www.zeitenschrift.com/artikel/5g-mobilfunk-globaler-mikrowellenherd-ohne-entrinnen](http://www.zeitenschrift.com/artikel/5g-mobilfunk-globaler-mikrowellenherd-ohne-entrinnen) | [www.welt.de/wirtschaft/article173748065/Starlink-Projekt-Musk-plant-Weltraum-Internet-mit-12-000-Satelliten.html](http://www.welt.de/wirtschaft/article173748065/Starlink-Projekt-Musk-plant-Weltraum-Internet-mit-12-000-Satelliten.html) [7] [www.diagnose-funk.org/publikationen/artikel/detail&newsid=1280](http://www.diagnose-funk.org/publikationen/artikel/detail&newsid=1280) | <https://bigbrotherawards.de/2018/pr-marketing-smart-city> | <https://dipbt.bundestag.de/doc/btd/19/012/1901221.pdf> | [https://de.wikipedia.org/wiki/Big\\_Brother\\_Awards](https://de.wikipedia.org/wiki/Big_Brother_Awards) [8] <https://alles-schallundrauch.blogspot.com/2018/09/trump-und-gates-wollen-keine-5g.html> | [www.palmbeachdailynews.com/news/local/official-palm-beach-exemptfrom-wireless-law/P94lYW16wGeybdkIMfHzbL/](http://www.palmbeachdailynews.com/news/local/official-palm-beach-exemptfrom-wireless-law/P94lYW16wGeybdkIMfHzbL/) [9] „IOT -Vernetzt, verstrahlt und krank“, Artikel aus ZeitenSchrift Nr. 94 („IOT – Networked, radiated and sick“, Article from ZeitenSchrift No. 94)

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