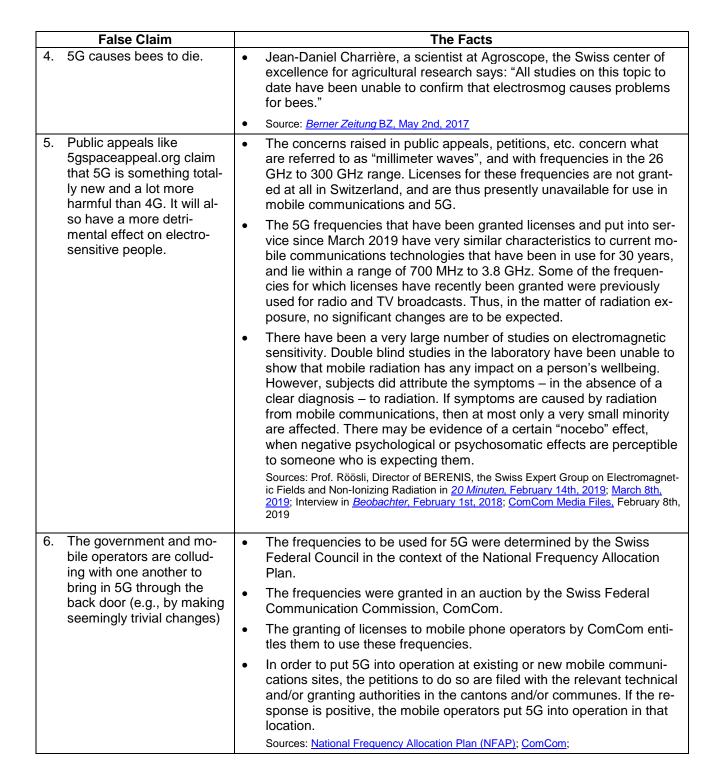
Press Release

5G Mobile Technology Fact Check

Bern, March 27, 2019 – Birds dying, military weapons, government conspiracy – when it comes to the 5th generation of mobile communications, the hit parade of falsehoods being spread is a long one. For the first time, the Swiss Telecommunications Association (asut) is releasing a fact-check document on 5G for everyone who would like to be able to rely on truth in the news and not misinformation. This summary of the issues will be regularly updated.

5G Mobile Technology Fact Check

False Claim		The Facts
1.	During a 5G technology test in the Netherlands, hundreds of birds died due to high-frequency 5G radi- ation.	 There were no 5G tests in The Hague during the time in question. Between October and November 2018, hundreds of starlings were actually found dead in Huygenspark in the Hague. Cause of death: The birds had been eating not only the non-poisonous berries of the yew trees there, but also their toxic needles. Source: mimikama, with links to additional sources
2.	5G is a totally new mobile communications technolo- gy that is being used by the military as a weapon.	 Energy weapons systems such as the "Active Denial System" use frequencies in the 95 GHz range and have nothing to do with 5G technology. The 95 GHz frequency range is used in Switzerland for radio astronomy and satellite navigation. Since the end of March 2019, the frequencies used for 5G in Switzerland have been in the 700 MHz to 3.8 GHz range. The threshold values for mobile communications prevent any harmful or bothersome heating of the body due to radiation from 5G antennas. Sources: National Frequency Allocation Plan <u>NFAP</u>; Ordinance relating to Protection from Non-Ionizing Radiation <u>ONIR</u>
3.	5G causes cancer.	 In terms of the technology used, and thus also in terms of any biological impact, there is very little to distinguish 5G as it is to be implemented in the coming years from 4G (LTE). According to all current scientific knowledge, there are no health risks that can be attributed to mobile radiation. When it comes to cancer, however, the data available is still somewhat unclear. Thus, to be on the safe side, the International Association for Research on Cancer IARC classifies mobile phone radiation as "possibly carcinogenic" – the exact same classification they give to coffee and many other substances. 90% of an individual's exposure to radiation comes from the person's own mobile phone. Having a good mobile network with a high-quality connection and optimizing one's own mobile phone to keep radiation as low as possible are considered important precautions. Sources: Swiss Cancer League; Swiss Research Foundation for Electricty and Mobile Communication (FSM); Dr. Gregor Dürrenberger, Director of FSM



False Claim		The Facts
7.	Only very small, local an- tennas are needed for 5G	• Globally, a certain de-facto standard has become established in the construction of mobile phone networks. High-performance antennas on rooftops or tower masts carry the majority of mobile services, supplemented by smaller, local antennas (microcells or femtocells).
		• Being based on this multi-layered mobile network architecture, nothing will change with the introduction of 5G, due to the physical realities involved.
		• High-performance antennas provide coverage and capacity both in- side and outside of buildings.
		• Microcells are used in some places with lots of mobile traffic in order to increase capacity and handle network density. However, they are not designed to improve coverage within buildings.
		 For additional coverage in individual spaces within buildings, femtocells are used if needed. Source: Mobile providers
8.	No one needs 5G. 4G will be sufficient for some time yet.	• There are currently capacity bottlenecks in today's 4G mobile net- works. 5G enables these to be resolved, improving mobile services for customers. Additionally, 5G is of great importance for digitization and innovation in Switzerland.
		• The use of 5G is being pursued in line with the Federal Council's "Dig- ital Switzerland" strategy. In addition to providing high-performance mobile communication, 5G will facilitate several new applications in areas such as the Internet of Things (IoT), including medical applica- tions (eHealth), image processing applications (Virtual Reality, Aug- mented Reality), and smart traffic control systems. Source: ComCom November 9th, 2017 and February 8th, 2019
9.	There are thousands of scientific studies that prove that mobile phones are harmful.	• <u>On February 18th, 2019, the Neue Zürcher Zeitung</u> concluded: "Using the standard threshold values for radiation, no study was able to demonstrate any risks involved. Even a general overview of research in the area – the best remedy against cherry-picking results in service of one's own prejudices – provides no indication of risk."
		• Many studies that claim electromagnetic fields are harmful to health (by causing cancer, etc.) do not fulfill scientific criteria. These include acknowledged quality standards, such as the ability to reproduce the results of the study, and its publication in a scientific journal. Source: <u>Prof. Harald Walach</u>

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About asut

asut is the leading association of the Swiss telecommunications industry. Along with our members, we work to shape and guide the digital transformation of Switzerland, working to achieve the optimal political, legal, and economic conditions for the digital economy.

asut is focused on three issues that are key to the success of innovation in the country. We want Switzerland to:

- position itself as the country with the best communications network in the world and first-class services thanks to fair, free, and dynamic competition,
- · distinguish itself by resilient systems and smart infrastructures,
- establish itself as a center of education and research that is tailored towards a digital society and economy.

More information at: www.asut.ch