

The deployment of 5G: by Stop5G.be

An unprecedented global experiment that threatens humanity, biodiversity and planetary balances. Collective stop5G.be – www.stop5G.be– 2019, September 2025 update In September 2016, the European Commission published a plan for 5G (5th generation of the mobile telephony), a technology presented as a step forward unprecedented for all, while investing hundreds of million in public funds. It would be a decisive step and a unavoidable economic opportunity (An action plan for 5G in Europe, digital-strategy.ec.europa.eu). Since then, official speeches have been aimed at convincing us that the only challenge is to be part of the dominant group in the global economic competition thanks to this new technology which will provide interconnection of humans and all objects and animals of their daily lives (IoT, Internet of Things).

The propaganda of 5G PPP (5G-PPP.eu), the public partnership between the European Commission and the pharmaceutical industry. telecommunications, tells us that 5G would increase by a factor of 1000 the capacity of the wireless telecommunication network, connect more than 7 trillion objects serving more than 7 billion humans with a connection delay that would be perceived as if it were null. The icing on the cake is that all these services would be supplied with a 90% energy saving. The best of all worlds is therefore promised to us: 5G is a radical break with the world we know. To what Price? Implementing 5G involves: – Multiplying the number of base stations by 3 to 5 (antenna or group of antennas) to accomplish the Internet of objects and make all sectors of the society that were not (cities, agriculture, health care health, etc.). – A new type of antenna capable of targeting smartphones and other connected objects (beamforming). In the high band, small antennas, to be placed every 50 to 100 metres in urban areas, on furniture public and even inside buildings. – Increase exposure limits according to ICNIRP recommendations. For example, in Brussels, the limit has been increased twice, the last time in 2023 to 14.6 V/m (570,000 $\mu\text{W}/\text{m}^2$) at 900 MHz, which corresponds to a 24-fold increase compared to the limit that prevailed before 2014 (see electrosmog.be/limites) and puts it very close to the limit of ICNIRP, 41.25 V/m (4,500,000 $\mu\text{W}/\text{m}^2$). I

Today, in 2025, in the EU, the deployment of 5G is only Partial: the infrastructure is still based on that of 4G and the frequencies in the high band have not yet been allocated. Pros memory, the EU has determined the frequencies in the 3 usual bands 5G: around 700 MHz for the low-end band, 3.6 GHz for the mid-band and 26 GHz for the high-band. Nothing prevents the operators to recycle the 2G and 3G frequencies, promised to the breakage. ii WHO, EU and most countries rely on the recommendations of the mandates of the International Commission on the Protection of Drugs and Diseases (ICNIRP) , non-

ionizing radiation). ICNIRP is a private institution of German law that functions like a closed club: its members alone decide who can enter and only those who can enter it are admitted defend the idea that if there are no thermal effects after a few minutes (heating of the tissues according to the principle of the microwaves), there can be no health consequences.

Two MEPs have published a report on ICNIRP, the scope of which – ICNIRP's limit values are 1 million times higher than what independent experts recommend such as those of the BioInitiative group and the Academy of Astronomical Sciences, European Union of Environmental Medicine and represent about 1 billion times the natural level. It is so exactly the opposite that should be done to protect the Living: greatly reduce these limit values. – 5G uses higher frequency waves than 4G, i.e. the mid and high bands (3.6 and 26 GHz in the EU) as well as millimetre waves (30 GHz and above), which, until now, have been used only slightly. The more the frequency, the more the waves are attenuated by the obstacles, leaves, rain, etc., hence the need to multiply antennas and raise power levels of issue. And to use beamforming to concentrate the power of the wave, which can lead to exposures very brief and intense radiofrequency radiation. These are ignored by the regulations, given that that the limits respond only to averaged measurements over several minutes. Omnipresent and strong electromagnetic pollution Rise The obvious consequence of the 5G rollout will be a significant electromagnetic pollution that will be added to that which has exploded over the last 25 years following the surge of wireless technologies and is already a public health problem largely denied by the authorities of health. This is evidenced by the insistent demands of the lobbies (BIPTIV to increase the emission limits to those of ICNIRP. The limit values adopted in all legislation on the basis of ICNIRP's recommendations only take into account heating of the tissues, which is implicated by thousands of studies showing biological effects at well below the above-mentioned limit values. In the case of regular exposure, these biological effects are likely to cause serious health consequences, especially for children and fetuses, which are more sensitive. Many risks of health damage are identified, including: main conclusion is: "For a truly scientific opinion independent, we cannot and must not rely on ICNIRP" (Klaus Buchner and Michèle Rivasi, June 2020).

View electrosmog.be/lobby III Plus or minus $1 \mu\text{W}/\text{m}^2$, depending on the target audience. IV BIPT: Belgian Institute for Postal Services and Telecommunications, a public interest body whose mission is to "ensure the interests of users"; In fact, an echo chamber of the telecoms lobby. See for example the BioInitiative Report 2012 and its updates, the work of 29 independent scientists from 10 countries. He draws up a state knowledge of the effect of electromagnetic fields (EMFs) on humans and living organisms, on the basis of several thousand of scientific studies, in more than 1500

pages. Available on www.bioinitiative.org; The summary of the report in French: electrosmog.be/RBI (a translation of the Collective stop5G.be). – breaks in the strands of cellular DNA; – stress cellular oxidative; – alteration of gene expression; – cancer; – infertility and alteration of sperm quality; – sleep disturbance; – heart problems; – neurological disorders, including depression and autism; – Depression of the immune system.

With 5G, we are entering an era where this pollution electromagnetic growth will take on an increased dimension and omnipresent. No living being will be safe. An experience without the consent of the subjects with 5G, we are all the subjects of a seamless experience. consent, in violation of the Nuremberg Code. As of August 1 2025, there were still only 50 biomedical studies on the expo 5G solution, but only eight of them involved the True 5GVI, as emitted by antennas and phones. Of these eight, the most notable is the series of case studies conducted by two Swedish researchers who show without tales radiation emitted by 5G antennas is more toxic than those of 4G and can cause rapid microwave syndrome, a disease identified as early as 1960s in the context of the growing use of radars. The symptoms are multiple and can be felt at extremely debilitating levels: headaches, sleep disorders, balance, difficulty concentrating, confusion, fatigue, insomnia, arrhythmia, nosebleeds, joint pain and dyspnea, etc. See electrosmog.be/cas for a Synthesis in French of these studies and their transposition into a film (5G – The Hidden History).

The unknown of millimeter waves with the use of millimetre waves, we dive into the unknown. To date, very few studies have examined the effects of exposure to this type of radiation. The fact that millimetre waves only pass very little the strong barriers allow proponents of their use to neglect their capacity to cause harm. Conclusion on their safety because they would be stopped by the skin is scientifically unfounded and irresponsible. On the other hand, the skin is an organ essential for multiple functions (immune, regulatory synthesis of vitamin D and other hormones, etc.).

The planetary environment disrupted 5G has been designed to connect up to one million objects per km², 24 hours a day. To cover every cm² of the Earth, the low-Earth orbit satellite communications have been integrated in the 5G standard, unlike 4G, in addition to million terrestrial antennas. Private companies and governments have already scheduled the launch of more than 100,000 satellites. In our night sky, they will appear brighter than 99% of the 9000 or so visible stars. This massive deployment of telecommunications satellites, in creating a permanent electromagnetic fog, is similar to a geoengineering technique.

It will pollute the ionosphere with millions of pulsed signals and is likely to disturb the natural electromagnetic environment of the Earth in which the living beings have evolved over millions of years and from which they have been dependent. Many scientists warn in vain that the Governments and international institutions. Calls from scientists and doctors from all over the world are multiplying have been bending for more than 20 years. For example, an international call VI The others used waves at the frequencies at the same time. but without the complex modulation of 5G. However, most of these 50 studies report significant negative effects. initiated in 2015, addressed to the UN and the WHO: it calls for stricter standards requirements, special protection for children and pregnant women, full public information on EMF (electromagnetic fields) risks, the creation of white areas, etc. (see the appeal in French on emfscientist.org and electrosmog.be). In 2025, it was signed by 268 specialists all of whom have published research on the effects of non-ionizing EMFs. Other questions Beyond the fundamental public health problems that the governments choose to ignore, the questions are many questions about the future of this headlong rush towards the "Brave New World".

The negative effects of proliferation on personal well-being – including risks for children – and collective living well are now perfectly documented VII, alongside the new possibilities of surveillance, policing, intrusions into life and hacking. The energy and climate balance of 5G promises to be disastrous. The energy required to transmit the antennas and antennas alone connected objects will lead to an increase in consumption. of more than 2%. This is just tip of the iceberg and is little compared to the energy that will be needed for the manufacture and renewal of billions of connected objects, the infrastructure of which the dozens of and the fibre optic network to which they can be connected, satellites and their orbiting, as well as the operation of the data centers whose processing capabilities will have to increase sharply. The energy consumption of new technologies such as 5G is only one aspect of their environmental impact.

The number and quantity of metals used in components are constantly increasing as they become more and more efficient. Our smartphones contain about fifty metals, including precious rare earths, compared to a barely twenty 15 years ago. In addition, the recycling of the is difficult, if not impossible, and has an impact on the negative environmental impact. The extraction and refining of minerals pollute the waters and the soils. The consequences are not very visible to our societies because these activities have been relocated. In conclusion 5G wanted by the telecommunications and telecommunications industries and promoted by our governments is a threat unjustifiable for our health and that of all living beings. It goes against an

environmentally responsible policy and the objectives set by the European Union and the signatories of the COP21 agreement in 2015 on the reduction of greenhouse gas emissions.

Call for donations Without your financial support, we will not be able to carry out our activities: information, legal recourse, etc. For more information, see our stop5G.be website and associated sites: stopcompteurs.be and electrosmog.be. – Any contribution, even symbolic, is welcome. – The activities of the Collective are carried out by volunteers (including the maintaining the website). – The Collective keeps its accounts available to any donor. – St Collectiveop5G.be, BE06 0689 3580 7022. This argument is available in the form of a leaflet, on our website or by mail (write to depliant@stop5G.be). VII Read, for example, *The Factory of the Digital Cretin – The Dangers of screens for our children* (Seuil, 2019) by Michel Desmurget, doctor in neuroscience.