

A PUBLIC HEALTH AND ENVIRONMENTAL CRISIS

Report on the State of Radio-frequency in the Environment

A mountain of scientific studies from the United States and around the world show grave harm to all aspects of biology from anthropogenic (man-made) radio-frequency electromagnetic (RF/EMF) radiation. The studies are catalogued in the ***Bioinitiative Report***. ([BioInitiative Report: A Rationale for a Biologically-based Public Exposure Standard for Electromagnetic Fields \(ELF and RF\)](#)).

Halting further densification of wireless is critical to humanity. We are in a public health and environmental crisis even due to the current levels of *electrosmog*, in which we now live (see Addendum 1). Ninety wireless bills sit currently in Congress that – if passed – would astronomically increase this already alarming radiation density, as well as prohibit people from exercising choice in decisions for their protection locally and on public lands. **Opposing these bills is imperative:** <https://ehtrust.org/congress/>. One of the bills addresses satellites –

This article from the Lancet entails a comprehensive assessment of the wirelessly induced health and environmental crisis, in which we are immersed because of the dearth in exposure regulations:

[Planetary electromagnetic pollution: it is time to assess its impact - The Lancet Planetary Health](#)

an integral part of the scenario that will blanket Earth¹ with uncontrolled *xenobiotic, xenobiospheric* radiation – and we have even less control over these installations -- out of sight way up in the sky:

[GO3S – Permanent Surveillance from Space - YouTube](#)

The decisions we make now about wireless infrastructure will forever impact humanity, health and the natural world. We must halt the microwave emissions speed train – we must grab the reins and roll back the already planet-harming electropollution density.

Radio-waves are the tiniest particles – they enter the body, and biological material reacts – artificial RF interferes with and wrecks havoc on the tiniest systems in and between cells. Advocates – committed to the

1 [SBIRS Mission Overview - Lockheed Martin - YouTube](#)

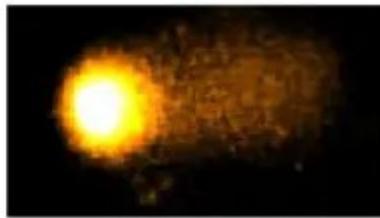
life-saving cause of halting the invisible but not harmless air electrification density – in Congress, in State legislatures, and attorneys – are needed to save humanity and the planet. The following is an overview of the current state of radiopollution and suggestions on how to curtail the harm.

This graphic is from a European Union-commissioned study, which shows wireless radiation is even more harmful to cells than nuclear radiation:

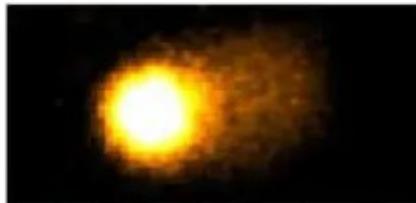
Ein typisches Bild nach RF-EMF Exposition von HL60 Zellen



sham



γ -irradiation, 0.5 Gy



RF-EMF, 1800 MHz, SAR 1.3 W/kg, 24h, continuous wave

*“...significant biological damage is done in human cells and especially to the DNA.” [EU Reflex study shows DNA damage caused by radiation from wireless devices and mobile phones](#)
– [JRS Eco Wireless](#)*

The following regards the 1968 Radiation Control for Health and Safety Act, which the Food and Drug Administration/Health and Human Services (FDA/HHS) did not implement – one reason for the alarming amounts of radio pollution, in which we live:

- "The Secretary shall establish and carry out an electronic product radiation control program designed to protect the public health and safety from electronic product radiation." ([Text - H.R.10790 - 90th Congress \(1967-1968\): An Act to amend the Public Health Service Act to provide for the protection of the public health from radiation emissions from electronic products | Congress.gov | Library of Congress](#))

This is an excerpt from the 1970 report from the Department of Health Education and Welfare that was one of the few steps taken to address implementing the Act:

- "There is increasing evidence that radio-frequency radiations can affect biological organisms, even at relatively low intensities, particularly under conditions of chronic exposure [WiFi in schools, offices and homes for example]. A substantial number of observations have been made at intensity levels below those presently accepted as tolerable for continuous exposure in the United States and most of Western Europe. To date, the deleterious effect of radio-frequency fields, particularly of microwaves, at relatively high intensities, e.g., 50 mW/cm² or greater, has been recognized and attributed to heating. However, biological hazards may exist at lower levels, extending well below 10 mW/cm², and effects at both high and low intensities may be attributable to more complex modes of interaction. At low intensities effects may be subtle, impairing performance; chronic, affecting general mental and physical health and longevity; and may also be mutagenic, affecting succeeding generations." ([Biological Effects and Health Implications of Microwave Radiation | Dr. Zory Glaser](#))

This is an excerpt from the petition filed with the HHS to implement the Act. The Agency still has not committed to doing so:

- "Petitioner AMERICANS FOR RESPONSIBLE TECHNOLOGY (ART), a not-for-profit coalition of more than 150 allied organizations and other petitioners Environmental Health Trust, Consumers for Safe Cell Phones, California Brain Tumor Association, Tahoe Stewards, Manhattan Neighbors for Safer Telecommunications, Sally Jewell Coxe and Robert Strayton hereby

respectfully request that the Secretary of the Department of Health and Human Services (HHS), within 30 days, issue a Declaration with enabling regulations, **that an Imminent Hazard to public health currently exists**, and to promptly ensure that this Declaration is communicated affirmatively to all public and private entities that are affected by the Imminent Hazard. We submit this Petition in the form required by 21 CFR Section 10.30 pursuant to 21 U.S. 360kk, and Sec. 21 CFR 2.5" ([2021-12-21_hhs_fda_petition_final-filed.pdf](#)) [Emphasis added.]

The following are excerpts from the until now unanswered 2021 DC Circuit Court of Appeals ruling, which ordered the Federal Communications Commission (FCC) to address biological and environmental harm of RF – without doing so means no biological protections exist:

- "Under this highly deferential standard of review, we find the Commission's order arbitrary and capricious in its failure to respond to record evidence that exposure to RF radiation at levels below the Commission's current limits may cause negative health effects unrelated to cancer. (As we explain below, we find that the Commission offered an adequate explanation for its determination that exposure to RF radiation at levels below the Commission's current limits does not cause cancer.) That failure undermines the Commission's conclusions regarding the adequacy of its testing procedures, particularly as they relate to children, and its conclusions regarding the implications of long-term exposure to RF radiation, exposure to RF pulsation or modulation, and the implications of technological developments that have occurred since 1996, all of which depend on the premise that exposure to RF radiation at levels below its current limits causes no negative health effects. Accordingly, we find those conclusions arbitrary and capricious as well. Finally, we find the Commission's order arbitrary and capricious in its complete failure to respond to comments concerning environmental harm caused by RF radiation. ([20-1025-1910111 EHT v. FCC.pdf](#) p. 9)

This is the Court's final order, upon which the FCC as of April 2024 has not taken action:

- “For the reasons given above, we grant the petitions in part and remand to the Commission to provide a reasoned explanation for its determination that its guidelines adequately protect against harmful effects of exposure to radiofrequency radiation unrelated to cancer. It must, in particular, (i) provide a reasoned explanation for its decision to retain its testing procedures for determining whether cell phones and other portable electronic devices comply with its guidelines, (ii) address the impacts of RF radiation on children, the health implications of long-term exposure to RF radiation, the ubiquity of wireless devices, and other technological developments that have occurred since the Commission last updated its guidelines, and (iii) address the impacts of RF radiation on the environment.” (Id, p. 30) [See additional record evidence documents here: [Environmental Health Trust et al. v. FCC Key Documents - Environmental Health Trust](#)]

○

The following is from the 2005 National Institute of Building Sciences (NIBS) report on safety in buildings for those with electromagnetic and chemical disabilities, which would also make buildings safer for all. Further steps to implement the recommendations have still not been taken by the United States Access Board (USAB):

- "The [Access] Board recognizes that multiple chemical sensitivities and electromagnetic sensitivities may be considered disabilities under the ADA if they so severely impair the neurological, respiratory or other functions of an individual that it substantially limits one or more of the individual's major life activities. The Board plans to closely examine the needs of this population, and undertake activities that address accessibility issues for these individuals.
- 'The Board plans to develop technical assistance materials on best practices for accommodating individuals with multiple chemical sensitivities and electromagnetic sensitivities. The Board also plans to sponsor a project on indoor environmental quality. In this project, the Board will bring together building owners, architects,

building product manufacturers, model code and standard-setting organizations, individuals with multiple chemical sensitivities and electromagnetic sensitivities, and other individuals. This group will examine building design and construction issues that affect the indoor environment, and develop an action plan that can be used to reduce the level of chemicals and electromagnetic fields in the built environment."

- “The overall objectives of this project were to establish a collaborative process among a range of stakeholders to recommend practical, implementable actions to both improve access to buildings for people with MCS and EMS while at the same time raising the bar and improving indoor environmental quality to create *healthier buildings for the entire population*. (emphasis added)
- “The recommendations in this report are only a first step toward the action plan envisioned by the Access Board. The NIBS IEQ committee offers several recommendations for further action.” ([IEQ-Report.pdf](#) pp. 2 and 3; Federal Register [02-21805.pdf](#) p 2, cols. 2-3)

Those disabled by electromagnetic emissions face an existential crisis:

Electromagnetically disabled people² have been exiled from their homes and society – increasingly as towers and other microwave-emitting installations have proliferated. This group of sick and disabled people finds themselves *refugees*³ – their lives upended, with nowhere to turn. They are forced out of their homes, and driven to take refuge wherever they may be able to find a spot to survive. This group represents millions of Americans:

Prevalence of EMS Percentages	Number of EMS in U.S.
Can't work – 0.65%	2.16 million
Severe symptoms – 1.5%	4.99 million
Moderate symptoms – 5%	16.6 million
Mild symptoms – 30%	99.7 million

[HHS-Submission-11-13-23-FINAL.pdf](#) (p.17)

2 [Magda Havas talks at NIEHS May 9, 2016 on Electrosmog and Electrohypersensitivity, - YouTube](#)
 3 [WiFi Refugee: Plight of the Modern-day Canary: Rowan, Shannon: 9798986670607: Amazon.com: Books](#) (Eva's plight is in this book, pp 116-119)

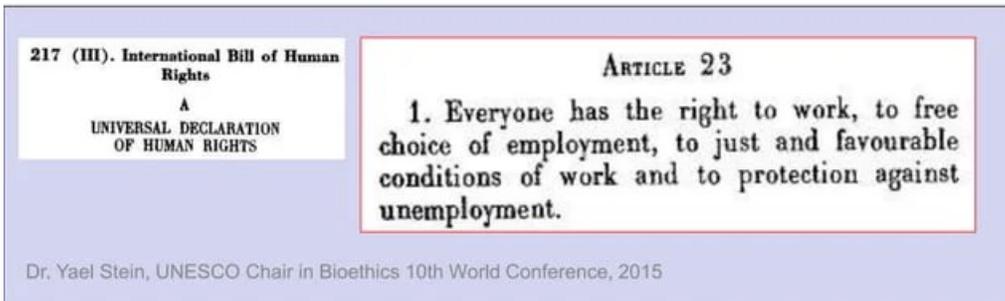
The increase in prevalence of this sickness has occurred concurrent to the rise in pulsed modulated RF proliferation especially since 1996. Instead of Agencies taking steps to protect the disabled and the vulnerable, the opposite has been status quo – with an active campaign to obscure biological RF-EMF harm:

- [Why did NIH abruptly halt research on the harms of cell phone radiation? | The Hill](#)
- [HUD-FHEO-Memo-Singles-Out-the-Electrically-Disabled-for-Discrimination-.pdf](#)

Dr. Yael Stein has noted the problem of [EHS human rights](#), at the UNESCO World Conference:

16. Since 2012 I constantly live the life of a refugee.

I slept in the woods, and then again in the basements of friend's houses. Right now I stay in the USA with Dafna Tachover in the hope of some improvement so that I will have the strength to continue and find a place to live.



217 (III). International Bill of Human Rights
A
UNIVERSAL DECLARATION
OF HUMAN RIGHTS

ARTICLE 23
1. Everyone has the right to work, to free choice of employment, to just and favourable conditions of work and to protection against unemployment.

Dr. Yael Stein, UNESCO Chair in Bioethics 10th World Conference, 2015

The General Counsel for the USAB wrote in 2000:

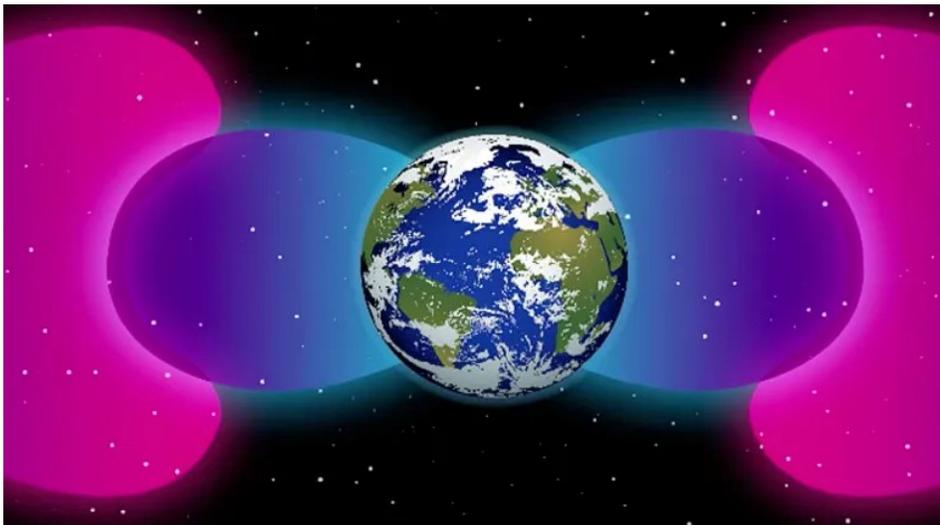
“Based on our experience, I can definitely state that there is definitely a need for housing for those with chemical sensitivities and electromagnetic sensitivities.”⁴

4 [General-Council-Architectural-and-Transportation-Barriers-Compliance-Board-Need-for-Housing-Electromagnetic-Sensitive-Disabled.pdf](#)

No safe housing has been built and the situation is dyer.

Many environmental and social problems are likely a direct or indirect consequence of invisible RF. Childhood behavioral problems, depression, insomnia, suicide, isolation, indiscriminate shootings, exploitation of minors, and other problems have all risen dramatically since the advent of cell phones and wireless everywhere.

Climate change and global warming is another problem that must be scrutinized in terms of radio-frequency because microwaves (wireless) create heat, ionospheric “heaters” pummel the upper atmosphere,⁵ and infrared satellites encircle the Earth.⁶ NASA has even shown us the persistent cloud of man-made radiation engulfing Earth that pushes the Van Allen belts out and away from Earth!:



(The blue section represents the electrosmog cloud, and the pink represents the Van Allen Belts)

[NASA just discovered a bizarre 'bubble' around Earth, and humans accidentally created it](#)

RF impacts our natural world and the tiniest creatures are very vulnerable:

- [The Birds & The Bees, The Flowers and The Trees – ThePeoplesInitiative.org](#)
- [Layout 1 - BEES, BIRDS AND MANKIND Destroying Nature by 'Electrosmog'](#)

5 [Interactive Map of HAARP and Ionospheric Heaters Worldwide • Live Earth Monitoring & Educational Resources • ClimateViewer Maps](#)

6 [SBIRS Mission Overview - Lockheed Martin - YouTube](#)

Privacy intrusion, including bio-hacking with invisible RF are alarming possibilities – people are sitting ducks in an undetectable and unattributable electromagnetic sphere -- monitored by people that cannot be seen or known. Radiation can *go through materials*, performing akin to x-rays and allowing viewers to see through skin, clothes, and walls. Once information is “digitized” through wireless, the owner has lost control over it.⁷ People must have a way to know what kinds of equipment is on facilities and their capabilities, otherwise grievous Fourth Amendment and other rights violations are possible:

- [The Insane Capella-2 Satellite That Can See Through Walls | IFLScience](#)
- [Davos 2023 - Are you Ready for Brain Transparency? | World Economic Forum](#)
- [Elders Health Will Be Monitored Using Through The Wall Radar Imaging.](#)

The environmental, social and economic impact of rare earth mineral mining for mobile devices, including autonomous vehicles, is a crime against nature and humanity – the impact on children working in mines in Africa constitutes child abuse – people, including children, are forced to work in dangerous, slavery-like conditions, and the impact on the land is devastating:

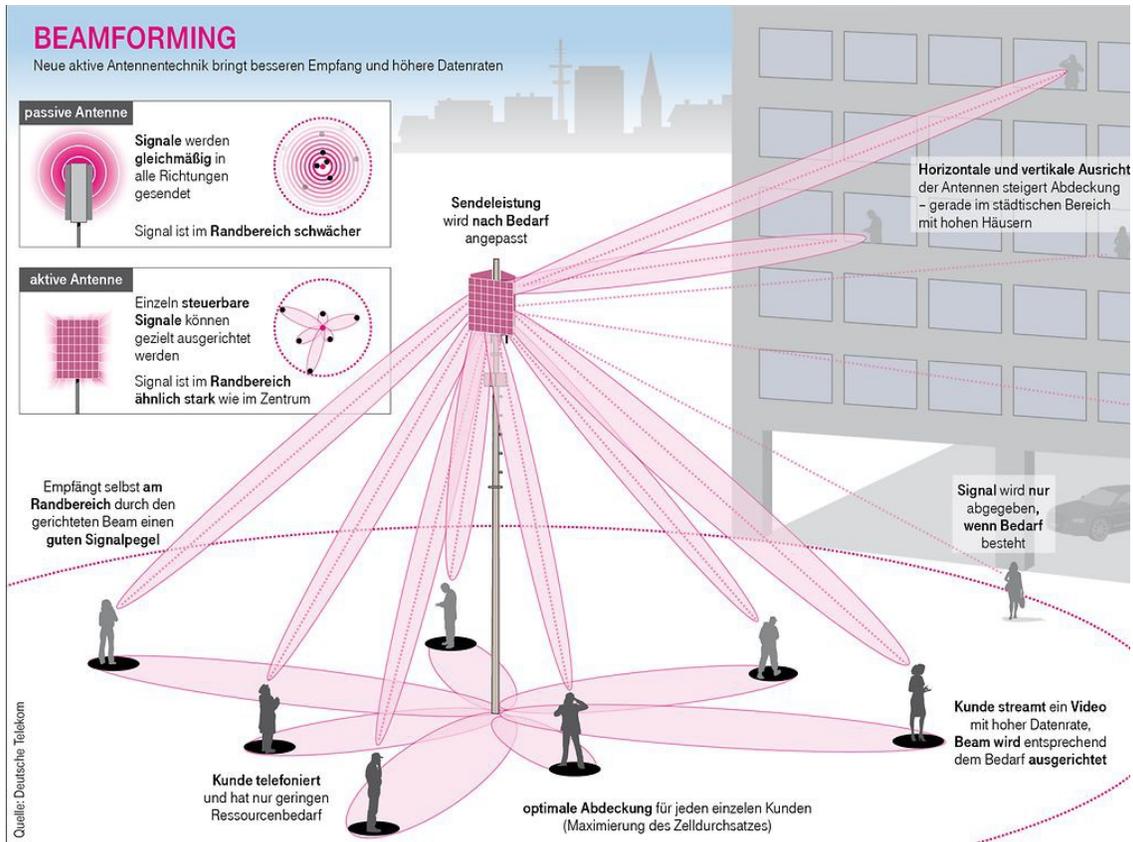
- [#1914 - Siddharth Kara - The Joe Rogan Experience | Podcast on Spotify](#)
- [Special report : Inside the Congo cobalt mines that exploit children - YouTube](#)
- [Mining of materials needed for 'green revolution' puts great ape population at risk](#)

The dangers posed by wireless technology are going on out of sight of everyone at the bottom of the ocean, too:

- [The Specter of Deep-Sea Mining - CounterPunch.org](#)
- [Cell-towers-on-the-ocean-floor.pdf](#)
- [Smart Ocean: Impacts of technology on marine life - Safe Tech International](#)

⁷ [E:\PUBLAW\PUBL495.108 VIDEO VOYEURISM](#)

Infrastructure for 5G broadband (see Addendum 2), is estimated to increase energy use by 61 times⁸ between 2020 and 2030 due to the high-powered broadcast for the focused, beam-forming, phased array configurations:



[Wie funktioniert Beamforming mit 5G? | Deutsche Telekom](#)

Wired communications – instead of through-air – is the best way to return to sustainable electronic communications.

This policy brief provides a road map of achieving a healthier, more secure planet:

[Electrosmog Policy Brief • Cellular Phone Task Force](#)

⁸ [Report: 5G to Increase Energy Consumption by 61 Times - Environmental Health Trust](#)

Areas in need of special attention:

Schools

Children are being misdiagnosed with behavior and other health problems that are likely caused by the wireless radiation that affects their brains and nervous systems. Wireless, including towers, must be prohibited from schools campuses; getting back to book learning is the healthy way to learn.

Surveillance and biometrics of children is an abomination:

- [Keeping Our Kids Safe from the EdTech Surveillance Industry | ACLU](#)
- [The Constant and Expanding Classroom: Surveillance in K-12 Public Schools](#)

Recognition of Electromagnetic Disabilities

Twenty federal agencies, courts, and states have recognized electromagnetic disabilities. However, others are denying the civil and human rights of the electrically disabled population. All must recognize the disability and access rights of those suffering from EMS and not discriminate. Further, **Zones that are free of wireless** must be established where those suffering from RF-EMF disabilities can live, work, and survive.

Federal funding of wireless infrastructure must be halted until the responsible agencies have fulfilled their duties to protect the public and environment from RF-EMF

The Department of Commerce is poised to distribute billions of dollars to states for broadband, but people and nature **must be protected**. Uncontrolled wireless and low frequency EMF from electronic products must not be allowed to continue to be rolled out. Strict regulations must be put in place. *We cannot say that because RF is invisible it is innocuous.* Distribution of funds must be halted until a sane regulatory framework has been established, or funds must be allocated for **hard wired connections only**.

Digital, beam-forming, and other novel configurations must undergo a National Environmental Preservation Act (NEPA) review process before being unleashed

Bursting (“pulsed-modulated”) energy, particularly since 1996, beam-forming (“maser”) for 5G broadband, scalar, and other types of RF are alien to the planet and must be examined for their impact on nature and biology. A healthy biosphere is essential for continued evolutionary life – rolling out ubiquitous, invisible radiation without close examination fundamentally alters society, the natural world, and is irresponsible.

Institute a sustainable national electronic communications infrastructure utilizing the following guidelines:

- [The WISE Grid .pdf - Google Drive](#) (below)
- [Reinventing Wires: The Future of Landlines and Networks](#)

Humanity is at the verge of a monumental existential crisis due to the massive proliferation of wireless and neglect by federal agencies. This must be addressed in every way possible – by relevant agencies, via introduced bills, resolutions, hearings, and in courts. Life on earth is in peril, and we must rein in the runaway train.

“a massive constitutional attack on this country.”

– Harvard Law Professor Julian Gresser on the bills in Congress that seek to strip all controls over wireless.

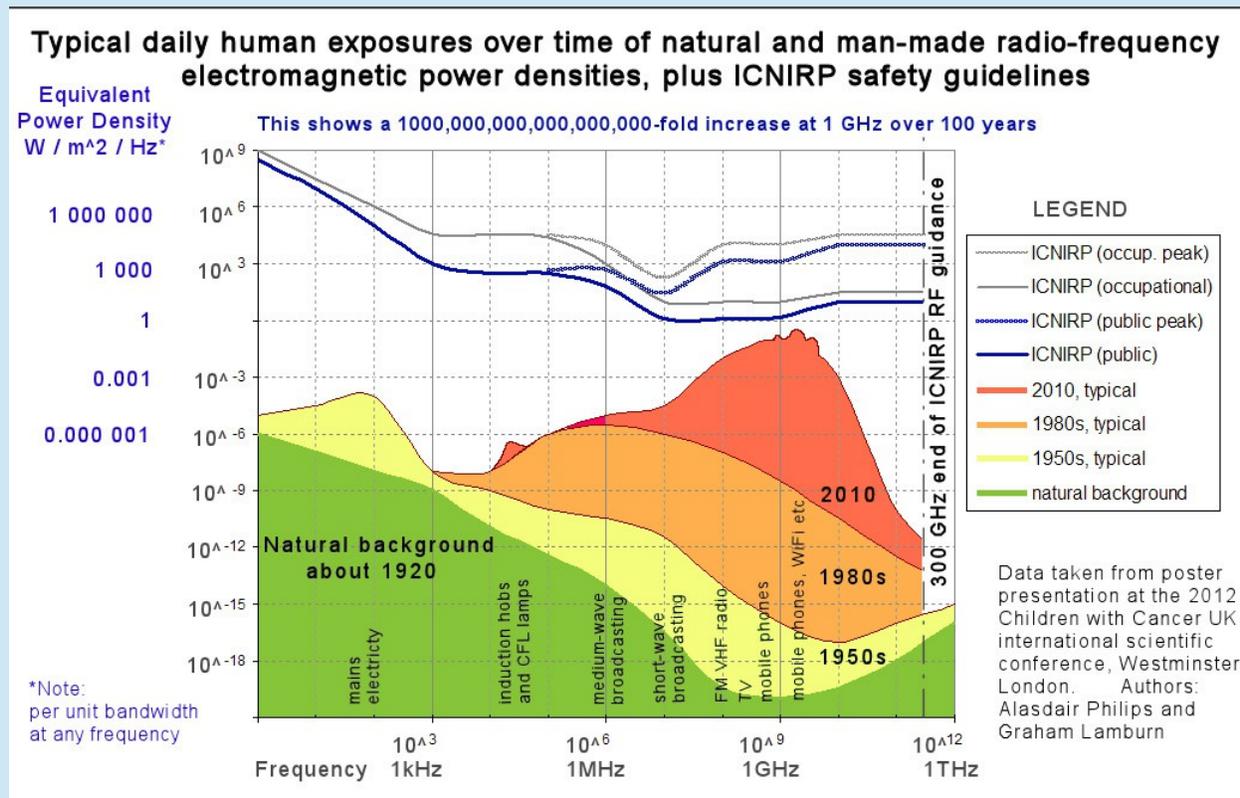
([Town Hall Grassroots Advocacy and Lobbying, November 1, 2023 - YouTube](#))

“we're kind of flying blind here, so far as health and safety is concerned.”

– Senator Richard Blumenthal on 5G

([US Senator Blumenthal Raises Concerns on 5G Wireless Technology Health Risks at Senate Hearing – YouTube](#))

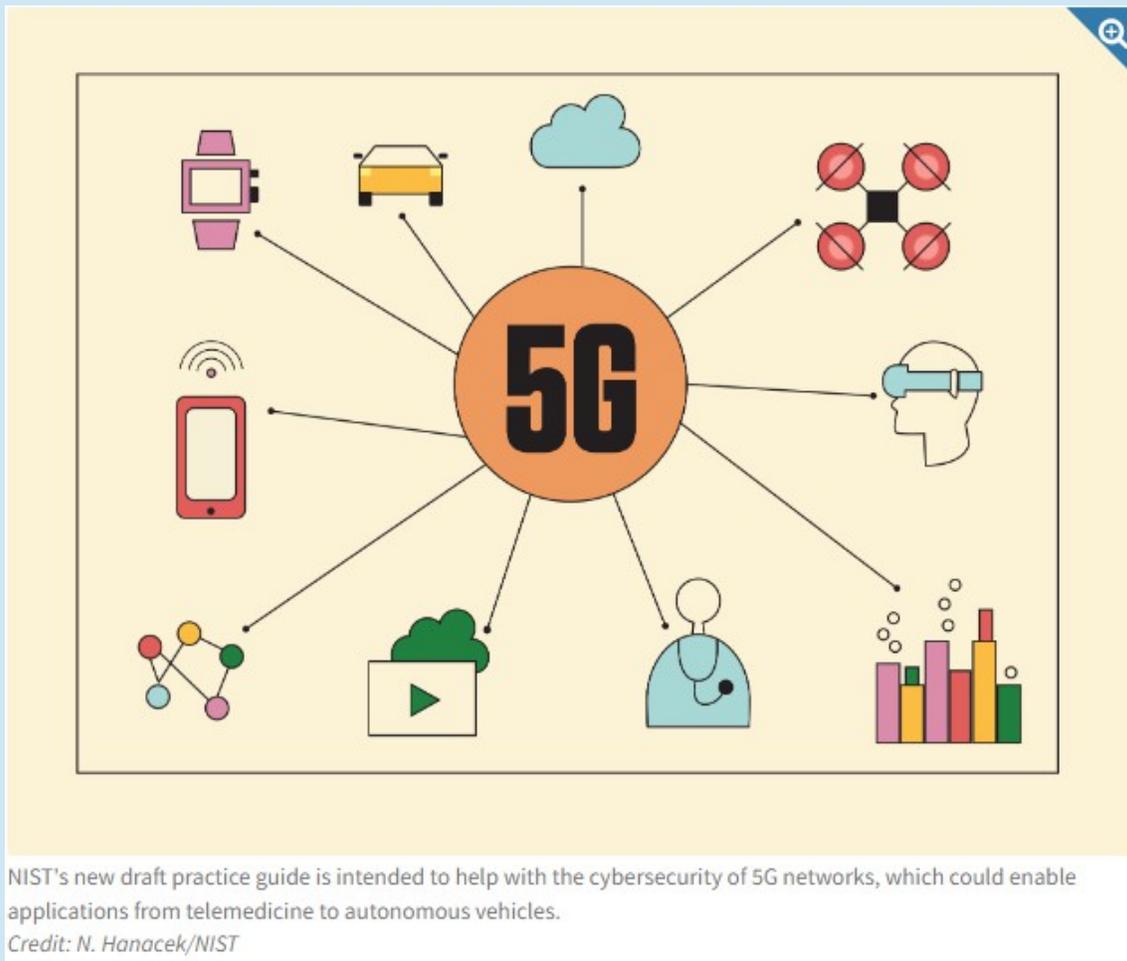
Addendum 1



The above graph shows the anthropogenic radiation levels (yellow, orange, and red) above background (green) in 2012. Levels are certainly much higher now, especially 1GHz-1THz.

[philips-lamburn-EMF-RF-exposure-graph-v8.jpg \(1061x667\)](#)

Addendum 2



This graphic from the National Institute of Standards and Technology (NIST), shows the intention of “5G” to be used for “multiple use case scenarios“ ([NIST Requests Public Comment on Draft Guidance for 5G Cybersecurity | NIST](#)), including “applications from telemedicine to autonomous vehicles” – wearables, wi-fi, wireless devices (voice and text, uploading and downloading, browsing and streaming, bar graph and QR code data), wireless networks, anything with a “sensor,” nano-transmitters, nanotechnology, “biometrics” (biological digitization and surveillance), virtual reality, and molecular sensors (methane and other gas sensors). The amount of radiation implicated for 5G and the “internet of things” (IoT) portends a serious threat to biological life.

“With 5G, core network complexity has reached a whole new level.”
([5G Cybersecurity](#))