

Yet Another Congressperson Seeks Answers from the FCC and FDA on 5G Radio-frequency Health Impacts

On April 15, Rep. Peter A. DeFazio (D-OR), House Transportation and Infrastructure Committee Chairman, wrote a [letter](#) to FCC Chairman Pai and acting FDA Commissioner Sharpless inquiring about the status of the government's research into the potential health effects of radiofrequency (RF) radiation and its relation to the FCC's [guidelines](#) for safe human RF exposure levels, in light of the Commission push to rollout 5G technology and over [800,000 new antenna installations](#) in the United States.

Rep. DeFazio pointed out that although the Commission sought comment on whether its RF safety guidelines should be reassessed in 2013, no further action has been taken and the guidelines have not been updated since their implementation in 1996.

The letter asks for details on the health-related studies conducted and what efforts have been taken by the agencies to educate and inform the public about its RF/5G technology research.

–[From the National Law Review](#), April 30, 2019

Previously, in 2018, US Senator Blumenthal and U.S. Representative Anna G. Eshoo sent a [letter to FCC Commissioner Brendan Carr](#) seeking answers regarding potential health risks posed by new 5G wireless technology. A few months later, at a Senate hearing, Blumenthal criticized Carr for failing to provide answers, and instead sending a [statement](#) that just echoes, “the general statements of the

FDA, which shares regulatory responsibility for cell phones with the FCC.” In the February 2019 hearing, Blumenthal decried the FDA’s statements as “pretty unsatisfactory.”

“I believe the American people deserve to know what the health effects are...We are flying blind here on health and safety”.

– [Senator Richard Blumenthal](#)

Rep. Peter A. DeFazio’s [letter](#) indicates a growing awareness among policymakers of the health impact of 5G. Coast to coast communities are calling for a halt or to slow down the deployment of 5G and so called “small” cells near homes. [Read a list of Cities more protective ordinances here.](#)

[Read the Letter by Rep. Peter A. DeFazio \(D-OR\), House Transportation and Infrastructure Committee Chairman to FCC Chairman Pai and acting FDA Commissioner Sharpless on 5G](#)

Read *this* *online* at <https://ehtrust.org/another-congressperson-seeks-answers-from-the-fcc-and-fda-on-5g-radio-frequency-health-impacts/>

Theodora Scarato
Executive Director
Environmental Health Trust

How the 5G rollout will transform your commute in

2020 (UK) and

I don't have enough palms to face any more. It's way past time to inform EVERY rail network of the implications of what they are getting so excited about inflicting on their passengers.

Chillingly misplaced enthusiasm for 5G onslaught published by [Great Northern](#) Railway, including: "EE has recently announced it is installing 5G antennae for testing in key locations across London, as well as other major cities. As a Line Resident for Great Northern, I was thrilled to learn ONE OF THESE ANTENNAE IS CURRENTLY BEING TESTED IN OLD STREET [my emphasis] – reachable via Great Northern trains – and I was fortunate enough to be allowed a visit."

[Govia Thameslink](#) (GTR) is echoing the dangerously deluded drooling with this on LinkedIn:

"We have become very data hungry – uploading pictures, streaming music and watching videos on the move – just look around on your commute. It's a good thing 4G is available to allow streaming of most things. But often, with so many others wanting the same thing, there just isn't enough data to go around. Step forward 5G!"

You can respond to GTR here: <https://www.linkedin.com/feed/update/urn:li:activity:6527500121507131392>

Tweet @TLRailUK

And to [Great Northern](#):

Tweet @GNRailUK

Online: <https://www.greatnorthernrail.com/help-and-support/contact-us>

They share the same phone number ~ 0345 0264700

And postal address.

Great Northern Railway / Govia Thameslink Railway
PO BOX 10240
Ashby-De-La-Zouch
LE65 9EB

<https://www.greatnorthernrail.com/about-us/line-residents/-ortis-deley/how-the-5g-rollout-will-transform-your-commute-in-2020>

[Vanessa Vine, FB](#)

**Update: SUPERB DOCUMENT BY
OLIVER VUILLEMIN |
KUSHNICK...TAKING THE FCC TO
COURT | FIBER | ENERGY...**

This is a labour of love and very thorough. ANYONE who is concerned should at least scroll through and see the predicament we are in. This action is based in the US but applies to us all. Well done Kate Kheel.... ed.

PLEASE SPREAD THE WORD ABOUT THE MAY 15TH ACTION DAY.

The website, www.5gcrisis.com lets you see if your city has

organized a protest for that day. If not, please consider organizing one or encouraging a 5g-opposition group near you to get to it ASAP.

For details about the day and call-in number for the Sunday evening conference call with Americans for Responsible Technology, please scroll to the end.

Also, for those who reside near Washington DC, please scroll down for the invitation to the May 15th protest rally in DC. (Near the bottom of this update)

ONE POWERFUL DOCUMENT BY OLIVER VUILLEMIN!!

This document was submitted to the UN Human Rights Council by Planetary Association for Clean Energy, Inc., and published on the UNHRC website.

5G is cruel, inhuman and degrading treatment under resolution 39/46 Written statement* submitted by Planetary Association for Clean Energy, Inc., The, a non-governmental organization in special consultative status

“In 1954, the tobacco industry founded the precursor to what is known today as the Council for Tobacco Research. This organization financed hundreds of so-called independent researchers, who published several thousand peer-reviewed studies the goal of which, as we now know, was to create controversy and doubt about a causal link between smoking and a wide array of grave illnesses. [1]

They used arguments which claimed to be “scientific” although industry insiders knew as early as 1950 that their product was dangerous. In 1969, an internal note from a subsidiary of a leading tobacco firm stated, “Doubt is our product”. [1]

These techniques are still extensively used today by telecommunications companies. The parallels with the tobacco industry are striking although the tactics subsequently improved with relentless lobbying. [2]

However, this is where the comparison between the tobacco and telecommunications industries stops. Electromagnetic radiation (EMR) has no smell and you cannot see it. It is everywhere, you cannot escape it, thus the consequences of biased science

combined with the impalpable nature of EMR are far more insidious and far-reaching. [3]”

<https://whatis5g.info/wp-content/uploads/2019/04/PACE-EMR-contribution-Feb.-11th-2019.pdf>

Accompanying references:

<https://whatis5g.info/wp-content/uploads/2019/04/References.pdf>

BRUCE KUSHNICK – TAKING THE FCC TO COURT FILED AND HAS A COURT DATE

For full article, please scroll down to the end of this update.

CUTTING 5G WIRELESS SMALL CELL DEPLOYMENT OFF AT THE KNEES.

Contact: Bruce Kushnick, Managing Director bruce@newnetworks.com

DONATE: <http://irregulators.org/donate/>

DOCS & DETAILS: <http://irregulators.org/irregulatorsvsfcc/>

“The IRREGULATORS have a court date – May 20th, 2019, and are looking for funding and partners to continue this case and make it stick. We are taking the FCC to court about its obscure accounting rules, which have had a massive impact that allowed Verizon and AT&T to transfer billions per state of the state public utility wired network construction budgets to illegally fund their wireless business—and 5G—and even charge local phone customers billions more, per-state.

Let’s be frank:

- 5G wireless is a con. Period. 5 comes after 4 so there had to be a 5G after 4G.
- It is, in reality, a wired fiber optic service with a small cell antenna that only has a range of 1-2 city blocks.
- Once it is exposed that the fiber optic wire, for the most part, has been illegally cross-subsidized and funded by the state utility construction budgets...
- 5G is no longer profitable if the service has to pay for the use of the fiber optic wires and the access fees and all of the other fees, like rights-of-way.
- Worse, it is a con because it doesn’t ‘scale’. It can never,

ever do rural areas where the distances alone make it unprofitable to run the fiber.

Exposing the fact that 5G will lose money, while delaying real wired solutions for high-speed broadband in cities, should even get investors, cities and the public pissed.

But when we detail and ask for the billions of dollars per state back to pay the customers that were overcharged to illegally fund the wireless business...fireworks. “

5G

5g obstructions

1. Passing through objects and building materials

2. Public pushback

3.No business case

4. Fiber is superior.

Public Pushback:

On the eve of the deployment of 5G, Belgian health professionals sound the alarm Mar. 11th, 2019 | EMF SA

Hippocrates Electrosmog Appeal Belgium

https://www.emfsa.co.za/news/on-the-eve-of-the-deployment-of-5-g-belgian-health-professionals-sound-the-alarm/?fbclid=IwAR3SBoMw-oqar7BacvrLLAvP_1dP1LQT4zoaBkoW0CIH1YZu6SdcPaY5G-w

FCC rules change threatens to delay 5G cellphone upgrade rollout Feb. 14th, 2019 | Dan Boylan | The Washington Times

“A turf war between federal regulators and local jurisdictions is brewing over the installation of hundreds of thousands of cellphone towers to upgrade to 5G. The fifth generation of wireless internet would require more than 400,000 “small-cell” antennas to be placed fairly close together, a situation that officials in Portland, Oregon, have called an eyesore. What’s more, the Federal Communications Commission in September drastically cut how much municipalities can charge wireless carriers to install and maintain the antennas. The FCC also shortened the time frame for cities to approve installation permits.

More than 80 cities and counties have filed lawsuits challenging the new FCC rules, and the U.S. Court of Appeals for the 9th Circuit in San Francisco is expected to render a

decision in the lead case in April.

“Instead of working with local governments to win the global race to 5G, the FCC is forcing cities to race to the courthouse to defend the most basic of local government rights – the authority to manage and seek fair compensation from private users that seek to employ public assets, owned and paid for by local taxpayers, for their personal profit without any obligation to serve all of the community whose assets are occupied,…”

“The U.S. Conference of Mayors, the National League of Cities and the National Conference of State Legislatures have joined a growing list of jurisdictions, including six of the country’s 10 largest cities – New York City, Los Angeles, Chicago, Philadelphia, Dallas and San Jose, California – in opposing the FCC order.”

<https://www.washingtontimes.com/news/2019/feb/14/fcc-rules-5g-cellphone-upgrade-spark-antenna-fight/>

Particularly strong testimony in Vermont calling for a moratorium on 5g

Top EMF professional calls for Vermont moratorium on untested 5G Wi-Fi technology April 22nd, 2019 | Michael Bielawski | True North Reports

“Dozens of activists and professionals crowded into Room 10 of the Statehouse on Thursday to call for a moratorium on the Vermont rollout of 5G internet technology.”

“‘I am not anti-tech, I am pro-health and safety,’ she said. ‘Evidence-based studies worldwide have clearly established the harmful effects of exposure to cell towers, cellphones and other pulsed radio frequency radiation devices.’ Artra said there are thousands of studies from around the world which support those with concerns regarding 5G health hazards. She added that more than 200 scientists are lobbying the World Health Organization to re-categorize EMF waves from the Level 2B class carcinogen to a class 1, the most serious classification. She notes that the FCC admits that despite the hasty rollout into public life, including cell towers within our immediate neighborhoods, not a single study exists on the safety of 5G conducted by either the industry or any government regulatory body.”

“Yet 5G is rolling out and exponentially increasing the public’s exposure to cell towers,” Artra said. ‘I’m here today to say on no uncertain terms that it has become necessary for Vermont legislators to stop relying on telecom lobbyists and the FCC. Legislators need accurate information to safeguard the health and safety of Vermonters.’”

<http://truenorthreports.com/top-emf-professional-calls-for-vermont-moratorium-on-untested-5g-wifi-technology>

Technical Difficulties

“T-Mobile says 5G mm Wave deployments ‘will never materially scale’ April 22nd, 2019 | Kendra Chamberlain | Fierce Wireless”

T-Mobile CTO Neville Ray says that millimeter wave (mmWave) spectrum won’t benefit many consumers. Much of the hype around 5G has centered on mmWave technologies, which operators Verizon and AT&T have focused on in delivering enhanced mobile broadband to wireless subscribers.

But, pointing to Verizon’s recent 5G network launch in parts of Chicago and Minneapolis, Ray wrote in a blog post that mmWave won’t be able to deliver on the promise of 5G because it doesn’t travel far.”

<https://www.fiercewireless.com/5g/t-mobile-says-5g-mmwave-deployments-will-never-scale>

5G internet service may be slow to reach some areas April 26th, 2019 | Mark Huffman | Consumer Affairs

“The technology has limitations and will be expensive to deploy.”

“According to Ray, 5G will probably never be a factor beyond small pockets in dense urban environments.”

“It’s true that 5G will be blazing fast and open up many new opportunities on the internet, but you might not be able to get it. At least, that’s what some telecom executives are saying.

Both Verizon and T-Mobile have made public statements over the last few days revealing what should have been obvious. This new technology is highly complex and will be very expensive to deploy. It might not be available except in dense urban areas. Most likely it will be a long time before it makes it to rural America.”

<https://www.consumeraffairs.com/news/5g-internet-service-may-be-slow-to-reach-some-areas-042619.html>

T-Mobile to launch 5G on 600 MHz in the second half of 2019

April 26th, 2019 | Linda Hardesty | Fierce Wireless

T-Mobile's CTO said he believes in mmWave, but not for scale.

"T-Mobile said during its first quarter 2019 earnings report Thursday that it plans to launch 5G on 600 MHz as soon as it has compatible smart phones in the second half of 2019.

Ray also addressed mmWave, which he recently said would not materially scale beyond small pockets of 5G hotspots in dense urban environments. Yesterday, he said T-Mobile believes in mmWave, and plans to use the technology itself. But, he reiterated that it's not a technology for scale.

'It doesn't penetrate walls, windows very well,' he said. 'It doesn't go very far. You get much more than 500, 600 feet away from a small cell, you ain't really seeing much, right? mmWave can play well in those dense urban environments; but it doesn't solve the 5G story, especially not in the three-million-plus square miles of the U.S.'"

https://www.fiercewireless.com/operators/t-mobile-to-launch-5g-600-mhz-second-half-2019?mkt_tok=eyJpIjoiTlRCaE1UTXpNREF6TkRJSIsIn0iOiJnOjZYRDZKQmIjN2ZnBXRaV2J3aGtoQnRJQXVkbWREUGJiVjBYWGVmQ3RQb1Jkd005V1ZzWVE5bKE0MFZ0XC9PK2Q5RHI0N0NYTGhWRDV3MEE1QVQ5ajNicw82WGNXTVV0bkR5d3t3TzVnbDhGRDg20VV2ME8reWw4dEliakxRSEIifQ%3D%3D&mrkid=760988

No Business Case for 5g

Operators struggle to make business case for 5G Feb. 14th, 2019 | Matt Kapko | Fierce Wireless

"...the business case is marginal, and the investments to enable new business models are not currently planned."

"The survey also concluded that 60% of operators view business case as the biggest challenge in their 5G strategy and only 25% expect 5G to deliver a strong business case. The increased operating costs and capital expenditures earmarked for 5G could prove difficult if carriers can't drive substantial interest in the next-generation networks."

<https://www.fiercewireless.com/5g/carriers-struggle-to-make-bu>

[Business Case for 5G](#)

A Bit Costly (Industry piece)

Intelligence Brief: How much will 5G cost? April 17th, 2019 | GSMA Intelligence | Mobile World Live

“In our newly expanded 2025 capex forecasts (to be released this week), we predict operators will spend over \$1.3 trillion over the next seven years on networks. The bulk of that (75 per cent, or a little less than \$1 trillion), will be allocated to 5G. The rest will primarily go into upgrading and expanding 4G networks, which will continue to coexist alongside 5G past the end of our forecast period.”

“the industry has concluded there will be no single killer app for 5G and operators will have to find an individual approach to revenue generation. This means 5G networks will have to be built in a modular way, to offer customised services, along with scalability. At the same time, operators will have to maintain a capex-to-revenue ratio low enough to keep investors happy. With all this factored in, it would be fair to say the global 5G investment cycle will be more gradual than the 4G one: capex will be spread out, with the global capex-to-revenue ratio not exceeding 18.5 per cent”
<https://www.mobileworldlive.com/blog/intelligence-brief-how-much-will-5g-cost/>

5G Failing

Research Firm Believes Verizon 5G Home In Sacramento May Not Succeed Mar. 22nd, 2019 | George Warren | CBS Sacramento

“SACRAMENTO (CBS13) – A research firm specializing in media and telecommunications issued an in-depth report this week explaining why it believes Verizon’s 5G Home service may not succeed. Sacramento is one of four US cities where Verizon began rolling out fixed wireless broadband last October and an analysis conducted specifically in Sacramento by MoffettNathanson Research suggests that nearly six months later, fewer than one tenth of one percent of people living in single family homes here have signed up for the service.”

<https://sacramento.cbslocal.com/2019/03/22/verizon-5g-home-sacramento/>

Verizon Announces 20 More U.S. Cities to Get 5G Despite Telecom Admitting No Studies Say It's Safe, Widespread Opposition, 5G Failure, and Future Lawsuits April 27th, 2019
| BN Frank | Activist Post

Article chock full of hyperlinks to articles and videos pertaining to topics contained in title.

<https://www.activistpost.com/2019/04/verizon-announces-20-more-u-s-cities-to-get-5g-despite-telecom-admitting-no-studies-say-its-safe-widespread-opposition-5g-failure-and-future-lawsuits.html>

Great diagrams of a horrific idea.

Industry diagrams of 5g in cities.

<https://www.facebook.com/photo.php?fbid=2214592638623149&set=a.1840709299344820&type=3&theater>

FIBER

Excellent website out of BC on municipal fiber

<http://connected-communities.ca>

Community-Owned Fiber Networks: Value Leaders in America

Pricing Review Shows They Provide Least-Expensive Local "Broadband" Jan. 2018 | David Talbot Kira Hessekiel Danielle Kehl

"We found that most community-owned FTTH networks charged less and offered prices that were clear and unchanging, whereas private ISPs typically charged initial low promotional or 'teaser' rates that later sharply rose, usually after 12 months."

https://cyber.harvard.edu/sites/cyber.harvard.edu/files/2018-01-10-Pricing.Study_.pdf

"Corporations will invariably seek the cheapest, quickest, and most profitable path, which has led to the current emphasis on wireless." Dr. Timothy Schoechle *Reinventing Wires*

"Wireless networks and services, compared to wired access, are inherently more complex, more costly, more unstable (subject to frequent revision and 'upgrades'), and more constrained in what they can deliver." Dr. Timothy Schoechle *Reinventing*

Wires and as quoted in the following article.

Broadband For All: Closing the Digital Divide in BC Without Big Telecom BC's remote and coastal communities have a golden opportunity to keep their internet service – and profits – in local hands April 23, 2019 | Claire Gilmore |

The Sentinel

“Many communities across North America are eschewing much-hyped 5G wireless networks to build and operate their own “fiber-to-the-premises,” or wired, networks. BC’s remote and coastal communities now have a golden window of opportunity to follow suit.

On March 8, the BC government announced an investment of \$50 million to expand high-speed internet service for people living in approximately 200 rural and Indigenous communities. The money, administered through the Northern Development Initiative Trust, is aimed at closing the “digital divide” – the discrepancy between Canadians who have access to information and communication technologies, and those who don’t. Then on March 19, the federal government tabled their budget, committing another \$750 million to “extend ‘backbone’ infrastructure to underserved communities,” and fund “last-mile” connections to homes and businesses. In other words, the digital divide is closing now, and Canadian communities have important decisions to make about about how they want to do it.”

<https://watershedsentinel.ca/articles/broadband-for-all-closing-the-digital-divide-in-bc-without-big-telecom/>

Community Network Map

“Discover how communities are investing in their own Internet infrastructure to promote economic prosperity and improve quality of life.”

“This map tracks a variety of ways in which local governments have invested in wired telecommunications networks as well as state laws that discourage such approaches.

Our map includes more than 800 communities, of which 500 are served by some form of municipal network and more than 300 are served by a cooperative (updated January, 2019):”

<https://muninetworks.org/communitymap>

Muni Fiber Models

“Community networks have a variety of models, from offering full retail services to dark fiber approaches. Each comes with its own strengths and weaknesses and will appeal differently to different communities. Below are some common approaches, though communities often tweak these models in various ways.”

<https://muninetworks.org/sites/www.muninetworks.org/files/2017-07-Muni-Fiber-Models-Fact-Sheet-FINAL.pdf>

For more on fiber please see, <https://whatis5g.info/fiber-optics/>

5G Overview

5G: The Big Picture April 25th, 2019 | Dr. Naydler | Children’s Health Defense

“Acclaimed author and philosopher Jeremy Naydler, Ph.D. is our guide as we explore what a full-scale deployment of 5G may mean for humanity at this critical time.”

Good overview of both terrestrial and space 5g. Some nice quotes.

“Very few people have even heard about the 20,000 new satellites that are due to transform the planet into a so-called “smart planet”, irradiating us night and day. In the national media, we do not hear voices questioning the wisdom, let alone the ethics, of geo-engineering a new global electromagnetic environment.”

“The irony that the “connected” future is one in which dizzying profits stand to be made from technologies that disconnect us more and more from the real world is entirely missed.”

“Earlier this year, The Guardian published an article citing research which showed that while 67% of independently funded studies found a biological effect of exposure to Radio Frequency radiation, only 28% of industry-funded studies did. Industry-funded studies are almost two and a half times less likely than independent studies to find health effects.¹⁵ The authors of the Guardian article explain that the telecoms industry doesn’t need to win the scientific argument about safety, but simply keep the argument running indefinitely by

producing studies with results that fail to verify, or even better contradict, the research that does find adverse health effects.”

https://childrenshealthdefense.org/news/5g-the-big-picture/?utm_source=mailchimp

PRIVACY

Hearing on privacy scheduled:

Consumer Perspectives: Policy Principles for a Federal Data Privacy Framework May 1st, 2019 | G50 Dirksen Senate Office Building

U.S. Sen. Roger Wicker, R-Miss., chairman of the Committee on Commerce, Science, and Transportation, will convene a hearing titled, “Consumer Perspectives: Policy Principles for a Federal Data Privacy Framework,” at 10:00 a.m. on Wednesday, May 1, 2019. The hearing will examine consumers’ expectations for data privacy in the Digital Age and how those expectations may vary based on the type of information collected and processed by businesses. In addition, the hearing will examine how to provide consumers with meaningful tools and resources to make more informed privacy decisions about the products and services they use both online and offline. The panel will also discuss data privacy rights, controls, and protections that should be available to consumers and enshrined into law in the United States.

Witnesses:

- Ms. Helen Dixon, Data Protection Commissioner, Republic of Ireland
- Ms. Neema Singh Guliani, Senior Legislative Counsel, American Civil Liberties Union
- Mr. Jules Polonetsky, Chief Executive Officer, Future of Privacy Forum
- Mr. Jim Steyer, Chief Executive Officer and Founder, Common Sense Media

<https://www.commerce.senate.gov/public/index.cfm/hearings?ID=EC293594-BD9A-4F07-9B7D-B9EFE65E7DC4>

CYBER SECURITY

The Most Telling Cyber Security Statistics in 2019 Feb. 20th, 2019 | Nick G. | TechJury

Excellent and informative detailed infographic on cyber security statistics to help visualize what is happening in the field as well as what to expect in 2019.”

<https://techjury.net/stats-about/cyber-security/>

ENERGY SECTOR AND 5G

Energy sector's worried and wants of piece of 5g

5G May Be Holy Grail for Telecom, But Energy Sector Feels Much Anxiety Over New Network April 22nd, 2019 | Dipka Bhambhani | Forbes

“While telecom giants are boasting faster, unlimited wireless connectivity for their mobile phone users under the long-awaited fifth generation wireless network (5G), the energy industry is worried.

Energy groups are warning regulators that a 5G rollout without securing adequate bandwidth for the sector could cause major harm to the nation’s electric grid and critical infrastructure.”

<https://www.forbes.com/sites/dipkabhambhani/2019/04/22/5g-may-be-holy-grail-for-telecom-but-energy-sector-feels-much-anxiety-over-new-network/#6ca0729f6efe>

Cutting Through the Hype: 5G and Its Potential Impacts on Electric Utilities

A white paper prepared for the Utilities Technology Council by the Joint Radio Company Ltd | March 2019

“This report seeks to provide the reader with an understanding as to what is meant by 5G, gauge where we are in the development of 5G technology, what might be achievable, what may be beyond the perceivable time horizon, and what is marketing hype, particularly as it relates to the needs of utilities.”

“The big issues for utilities are cost, reliability and confidence in the supply chain. It is important to note that the availability and resilience of a communications system is more a feature of network design, operation and maintenance than it is of the technology employed. There is nothing inherent in 5G to make it more reliable and resilient than previous generations of technology; on the contrary, there is the potential that the extra infrastructure – located closer to the end service points – needed to provide 5G promises will increase the cost of enhancing reliability. Since all modern communications networks are software controlled, this must also be recognized as a common-mode failure point, especially with the increasing complexity of modern software systems.”

“Another major issue is security. Any wireless network is open to monitoring over the air, interception and/or tampering. However, provided the security system is designed with this vulnerability in mind, the network could potentially be better secured than legacy systems.”

https://utc.org/wp-content/uploads/2019/03/Cutting_through_the_Hype_Utilities_5G-2.pdf

Two particularly interesting quotes from the above entry:

“At present, there is public enthusiasm and immense government momentum behind 5G, facilitating progress in facing the challenges above. There are however areas where public opinion could easily reverse itself driven by environmental, cost, or safety concerns, slowing progress and hampering deployment of the 5G system. “

“...the growth of 5G in microwave bands could reignite health concerns.”

The following is a brief discussion of energy from an email sent by Jean Hudon. Lots of hyperlinks:

The power consumption globally of 5G (in addition to 3G and 4G systems) along with the data consumption of mobile users will thus also become **a key driver for global warming** unless the energy is coming from clean energy sources – check [Our phones and gadgets are now endangering the planet](#) “The energy used in our digital consumption is set to have a bigger impact on global warming than the entire aviation industry”. AND [‘Tsunami of data’ could consume one fifth of global electricity by 2025](#) – “He expects industry power demand to increase from 200-300 terawatt hours (TWh) of electricity a year now, to 1,200 or even 3,000TWh by 2025. Data centres on their own could produce 1.9 gigatonnes (Gt) (or 3.2% of the global total) of carbon emissions, he says.” From that perspective, the IoT is a very bad idea. There will be “20.4bn internet of things devices to be deployed by 2020,” [says the leading internet analyst firm Gartner](#). Connecting several more billions of people to the Internet as [Elon Musk wants to do with his planned 12,000 5G satellites](#) is thus also a bad idea.

This is not something that has been emphasized so far by 5G opponents. So we might have a wedge here in that if we can over time convince a large enough percentage of people around the world to reduce their data consumption, just like we try to get people to reduce their fossil fuel use and ecological footprint, we might succeed in making the high-use economic model on which telecoms depend to eventually make a profit from 5G to fail and thus derail or delay the rush towards ever more bandwidth (with the [6G already in its developmental stage in Finland](#)). Something to consider...

But I reckon with the fact that the telecoms, in league with the wireless devices and apps makers, are so good at making people utterly zombie-like addict to wireless mobile devices ([people spend more than 11 hours a day glued to](#)

[their cellphone and other screens now](#) – actually, that was a year ago, now it's probably more like 12 hours a day!!!) that this is a very long shot proposition. But at least we know that standalone 5G antennas will automatically switch off (to save energy) when no one will demand a wireless connection to them.

Most people have become so braindead as far as critical thinking goes, or are so utterly disinformed by the industry and their media whores who spout their propaganda without a single consideration for health concerns, that hardly anyone but us the awakened 5G opponents realize just how ethically out-of-whack it is to force onto everyone such a humongous increase in untested EMF exposure, thus turning everyone into guinea pigs in a massive mad-science experiment. To them, this is all tin-foil-hat demented, hysteric talk and they totally disregard our and hundreds of scientists alarm as pure nonsense.

I would hope that we are all crazy indeed and that the collateral damages of this experiment will be minimal... but everything I know tells me **we are right** and **they are utterly wrong... and demented!**

Our phones and gadgets are now endangering the planet July 17th, 2018 | John Harris | The Guardian

Energy guzzling data centers. "...their [corporations'] supposedly unlimited digital delights are, in the dictionary definition of the term, unsustainable."

"Irrespective of the good work carried out by some tech giants, and whether or not you take seriously projections that the entire communication technology industry could account for up to 14% of carbon emissions by 2040, one stark fact remains: the vast majority of electricity used in the world's data centres comes from non-renewable sources, and as their numbers rapidly increase, there are no guarantees that this will

change.”

<https://www.theguardian.com/commentisfree/2018/jul/17/internet-climate-carbon-footprint-data-centres>

New Dark Age Technology and the End of the Future James
Bridle

“As the world around us increases in technological complexity, our understanding of it diminishes. Underlying this trend is a single idea: the belief that our existence is understandable through computation, and more data is enough to help us build a better world.

In reality, we are lost in a sea of information, increasingly divided by fundamentalism, simplistic narratives, conspiracy theories, and post-factual politics. Meanwhile, those in power use our lack of understanding to further their own interests. Despite the apparent accessibility of information, we’re living in a new Dark Age.”

A sea of excellent reviews can be read at the following link.

<https://www.versobooks.com/books/2698-new-dark-age>

HEALTH (and LIABILITY)

Guest Blog from Dr. Don Maisch, Australia: ‘Are community concerns over the 5G network rollout based on unfounded anxiety or valid evidence?’ April 2019 | Don Maisch | Between a Rock and a Hard Place

The assurances of a complete absence of risk from 5G networks coming from these experts is not reflected in what is known about the many uncertainties which exist with 5G technology and speaks more about their own ignorance than that of concerned communities.

<https://betweenrockandhardplace.wordpress.com/2019/04/25/guest-blog-from-dr-don-maisch-australia-are-community-concerns-over-the-5g-network-rollout-based-on-unfounded-anxiety-or-valid-evidence/>

IARC Urged To Revisit RF Risk

Animal Studies Prompt Calls To Upgrade Classification to “Probably Carcinogenic” or Higher

April 22nd, 2019 |

Microwave News

“An advisory committee has recommended that the International Agency for Research on Cancer (IARC) reassess the cancer risks associated with RF radiation. This should be a “high priority,” according to the panel’s report, which was issued last week.

The group, with 29 members from 18 countries, suggests that the new evaluation take place between 2022 and 2024.”

<https://microwavenews.com/short-takes-archive/iarc-urged-reassess-rf>

Strong piece in which Martin Pall summarizes the main points from his Magnum Opus on 5g

Yoda: 5G EMF Risk – Great Harm – Letter by Martin L. Pall, PhD

“We know that there is a massive literature, providing a high level of scientific certainty, for each of eight pathophysiological effects caused by non-thermal microwave frequency EMF exposures. This is shown in from 12 to 35 reviews on each specific effect, with each review listed in Chapter 1, providing a substantial body of evidence on the existence of each effect.”

<https://phibetaiota.net/2019/04/yoda-5g-emf-risk-great-harm-letter-by-martin-l-pall-phd/>

And a radio interview...also Martin Pall

<https://kpfa.org/program/your-own-health-and-fitness/>

Please note that in the following article the author confuses WiFi and 5g cellular networks...good otherwise.

Lloyds Insurers Refuse To Cover 5G Wi-Fi Illnesses Feb. 12th,

2019 | Phibetaiota.net | Principia Scientific International

“Lloyds of London, one of the world’s premier insurance

groups, is refusing to insure health claims made against 5G wireless (“wi-fi”) technologies.

How curious that Lloyds of London has excluded from their policies any negative health effects caused by wi-fi technologies. Now, WHY would Lloyds leave all that money on the table if these technologies are so safe? And, why are other insurance companies following Lloyds’ lead?

If you think that following-the-money provides insights, you’ll probably conclude that something VERY BIG is embedded in this

decision. <https://principia-scientific.org/lloyds-insurers-refuse-to-cover-5g-wi-fi-illnesses/?fbclid=IwAR0rntF6k03l3kgR5C8TmH1eoFn0rJX2KMKcX9T06xhvz8NSVkrXIdq76Y0>

Environmental Health Trust has assembled a collage of videos, articles, and commentary on the long history of firefighters opposing cell towers and getting exemptions for fire stations.

Firefighter Unions Opposing Cell Towers

“Due to the unique duties and infrastructure requirements for the swift and effective deployment of firefighters...” firehouses are exempted from cell towers. Might it not be wise to exempt children as well...and perhaps all of us?

https://ehtrust.org/firefighter-unions-opposing-cell-towers/?fbclid=IwAR3MLGL0Gt1ARvCgUykEgtDF87qxxvG080vYZsc1_f0lPfgLjtxPXWkXuoXs

CELL TOWERS USED FOR METEOROLOGICAL SERVICES

(With appreciation to Jolie Diane. For more on the connection between 5g and geoengineering, please see www.zero5g.com)

Extra source of profit for Telecom. □

Your Towers Can Make a Buck as Meteorological Data

Providers April 17th, 2018 | Inside Towers

“Electromagnetic signals are exchanged between towers, and as it rains, these signals fluctuate. Researchers from WIREs Water found that rainfall attenuates the electromagnetic signals broadcasted from the antenna of one cell tower to another. As rainfall patterns change, so does the power of these signals. Advanced Science News, explained that monitoring the signal losses could then be converted to measure the path-average rain rates in an area. Using cellular microwave links to map space-time precipitation has become a novel measurement technique for rainfall estimates. “

“The researchers explained that cellular communication companies could reap direct benefits from teaming up with national meteorological services, academia, and consulting firms.

Since 2009, T-Mobile NL provided cellular communication link data free of charge to researchers who were studying the use of microwave links for rainfall estimation. This new measurement method could make cellular communication even more useful and tower providers even more profitable than they already are, if the measurement technique can be fully recognized.”

<https://insidetowers.com/cell-tower-news-towers-can-make-buck-meteorological-data-providers/>

Also see,

Microwave Links from Cellular Communication Networks As Rain Gauges

<https://www.advancedsciencenews.com/microwave-links-from-cellular-communication-networks-as-rain-gauges/>

Your mobile phone could help weather forecasts be more accurate

<http://home.bt.com/tech-gadgets/tech-news/5g-mobile-phone-weather-forecasts-met-office-11364194794921>

RAINFALL ESTIMATION FROM SIGNAL ATTENUATION OF CELLULAR PHONE NETWORK (MICROWAVE LINK)

<https://zero5g.com/wp-content/uploads/2019/02/RAINFALLESTIMATIONFROMSIGNALATTENUATIONOFCELLULARPHONENETWORK-2.pdf>

EFFECTS ON BRAINS AND HUMANITY

W.H.O. Says Limited or No Screen Time for Children Under 5 April 24th, 2019 | Emily Rueb | NY Times

“Limiting, and in some cases eliminating, screen time for children under the age of 5 will result in healthier adults, the organization, a United Nations health agency, announced on Wednesday.” “What we really need to do is bring back play for children,” Dr. Juana Willumsen, who works on childhood obesity issues at the W.H.O., said in a statement.”

<https://www.nytimes.com/2019/04/24/health/screen-time-kids.html?fbclid=IwAR1QcmKWXCy1T0gI6R2StcCVImi8wh6W0-RIG2a70vPpldFov2er9cKRCRE>

Do we really want emotionally intelligent robots – robots that can “read our emotions” – infiltrating our lives?

Robots reading feelings April 5th, 2019 | Case Western Reserve University | PhysOrg

“These social robots will take some time to catch in the U.S.,” Lee said. “But in places like Japan, where there is a strong culture around robots, this is already beginning to happen. In any case, our future will be side-by-side with emotionally intelligent robots.”

<https://phys.org/news/2019-04-robots.html>

MISCELLANEOUS ARTICLES

I cannot comment on this technology, but am waiting to hear back from others far more knowledgeable than I.

Ultra-high-speed Wi-Fi breakthrough April 25th, 2019 | Leah Burrows | The Harvard Gazette

“In a paper published in the Proceedings of the National Academy of Sciences, researchers from the Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS) demonstrated a laser that can emit microwaves wirelessly, modulate them, and receive external radio frequency signals.

“The research opens the door to new types of hybrid electronic-photonic devices and is the first step toward

ultra-high-speed Wi-Fi,” said Federico Capasso, the Robert L. Wallace Professor of Applied Physics and Vinton Hayes Senior Research Fellow in Electrical Engineering at SEAS and senior author of the study.”

“Now, the researchers have figured out a way to extract and transmit wireless signals from laser frequency combs.

<https://news.harvard.edu/gazette/story/2019/04/harvard-sound-transmitted-by-laser-is-ultra-high-speed-wi-fi-breakthrough/>”

Powerful films related to wireless communications, including cell phones, cell towers, wifi, smart meters and RFID as presented by EMR Alliance BC

The following is a must-see if you have not already seen it.

Microwaves, Science & Lies!

2018 <https://vimeo.com/322331294>

Link to other films

http://emrabc.ca/?page_id=5181

BRUCE KUSHNICK TAKES THE FCC TO COURT

Full article:

Well, we filed..

PLEASE DISTRIBUTE --



FUNDRAISER:

CUTTING 5G WIRELESS SMALL CELL DEPLOYMENT OFF AT THE KNEES.

Contact: Bruce Kushnick, Managing
Director bruce@newnetworks.com

• DONATE: <http://irregulators.org/donate/>

§

DOCS

&

DETAILS: <http://irregulators.org/irregulatorsvsfcc/>

The IRREGULATORS have a court date – May 20th, 2019, and are looking for funding and partners to continue this case and make it stick. We are taking the FCC to court about its obscure accounting rules, which have had a massive impact that allowed Verizon and AT&T to transfer billions per state of the state public utility wired network construction budgets to illegally fund their wireless business—and 5G—and even charge local phone customers billions more, per-state.

Let's be frank:

- 5G wireless is a con. Period. 5 comes after 4 so there had to be a 5G after 4G.
- It is, in reality, a wired fiber optic service with a small cell antenna that only has a range of 1-2 city blocks.
- Once it is exposed that the fiber optic wire, for the most part, has been illegally cross-subsidized and funded by the state utility construction budgets...
- 5G is no longer profitable if the service has to pay for the use of the fiber optic wires and the access fees and all of the other fees, like rights-of-way.
- Worse, it is a con because it doesn't 'scale'. It can never, ever do rural areas where the distances alone make it unprofitable to run the fiber.

Exposing the fact that 5G will lose money, while delaying real wired solutions for high-speed broadband in cities, should even get investors, cities and the public pissed.

But when we detail and ask for the billions of dollars per state back to pay the customers that were overcharged to illegally fund the wireless business...fireworks.

IRREGULATORS v FCC is the first step to stop all of these harmful, if not illegal practices.

Why is AT&T and Verizon banging the drum on this 5G crap? 5G Wireless is nothing more than the new 'shiny tech' bauble—like some hypnotist putting some shiny thing in front of someone to

put them under – and the promise of new tech has been used in every decade to get regulations and obligations removed.

Moreover, AT&T and Verizon et al. captured this FCC. FCC Chairman Ajit Pai is a former Verizon attorney, while Commissioner Brendan Carr worked for Verizon, AT&T and even the wireless association, CTIA. Taking control of the FCC, they have created over 30 separate proceedings, each designed to get rid of any remaining regulations or obligations to offer wired services, and to be able to substitute wireless to the home, without any interference of state or city approval or oversight. Moreover, all of the consumer protections and safeguards are being stripped away.

While common wisdom claims that there are no more ‘landlines’, there are over 120 million customers with phone service that use a wire, with 55 million that are part of the state utilities. However, this is a fraction of the lines in service that are NOT being counted. AT&T never upgraded its networks to fiber optics to the home; U-Verse is a bait-and-switch, a copper-to-the-home service with a fiber wire somewhere within $\frac{1}{2}$ mile. Meanwhile, these lines as well as DSL, alarm circuits, business ATM machines and all of the other ‘data lines’ are not counted as a line—they have been ‘reclassified’ as an “information service” or “interstate service”.

But there is a kicker to this: We found a structural flaw in every FCC proceeding. The FCC’s arrogance not only never examined the impacts their rules were having on the state financials, it excluded all ‘state-based’ revenues, expenses, broadband commitments, investments—everything. And every FCC decision and every state decision that AT&T, Verizon and CenturyLink present have all followed this flaw.

IRREGULATORS v FCC exposes that the FCC’s accounting rules that were designed to divide up all of these expenses of the different lines of business that use the wires and make sure that prices were ‘just and reasonable’, have become corrupted. And if you want crazy – we uncovered that these rules were set to reflect the year 2000 – that’s right, 19 years ago and they are so deformed that they put the majority

of all expenses into the wired utilities – which made them look unprofitable.

This caused major rate increases, it was used to claim that it was unprofitable for the companies to build in rural areas – causing the Digital Divide, and it saved the companies billions in taxes – per state. As incredible as this seems, the FCC's arrogance decided to continue this "freeze" for another 6 years–until 2024.

However, we caught them and now its time to take this to court. In 2015 an investigation started, based in part on our research, of Verizon New York, which is a \$5 billion state utility. In July 2018, working with the CWA union, there was a settlement estimated to be worth \$300-\$500 million and it will bring 32,000 lines of fiber optics to unserved areas as well as maintain the existing copper. And the investigation revealed the massive financial cross-subsidies of Wireless and the other Verizon businesses.

IRREGULATORS v FCC is a critical case. If we can get the court to hold the FCC accountable, all of the billions per state diverted to wireless services will be in question, and can be used to properly upgrade the states with fiber optics–or even give refunds to those overcharged. 5G Wireless will then not only be unprofitable, but laughed at–who would want a crap wireless service when a fiber optic wire is 1-2 blocks from their home?

The IRREGULATORS is an independent consortium of senior telecom experts, analysts, forensic auditors, and lawyers who are former staffers from the FCC, state advocate and Attorneys General Office, as well as telecom auditors and consultants.

INVITATION TO PROTEST RALLY IN DC AND INFO ABOUT SUNDAY EVENING CONFERENCE CALL RE PROTEST RALLIES

Washington DC, MD, VA Day of Action on 5G

To all in DC, Maryland, and Virginia,

Please join us for the the National/International 5G Day of Action. We are protesting the forcing of unhealthy, unnecessary, unwanted 5G "small cells" onto us all. No cell towers near our schools, homes or parks. We are calling for safe, healthy, and responsible technology.

People will be taking action across the USA and even around the world on the same day.

5G Action at the Supreme Court:

When: Wednesday, May 15th, at 11:00 am.

Where: Starting with a rally at the US Supreme Court, we will plan a route walking in single file past the Capitol, past Congressional Office Buildings, and landing at Verizon Store or soon to be announced location.

What to bring: Bring signs, slogans, conviction, spirit, energy, creativity, and a vision for a better tomorrow.

Please make every effort to attend the rally and bring friends, family, colleagues, and anyone else you can find. Every person makes a difference!!

Volunteers Needed!

We need volunteers this month to help coordinate, flyer, do press outreach and more. Please contact us and even if you can volunteer for just one hour it will help immensely. We need at least 5 people to assist.

RSVP is needed.

We may be getting a permit and so we need to know how many people are coming.

If you are planning to attend or want to get updates, please send an email to rethinking5g@whatis5g.info

Envisioning a better tomorrow than what Telecom is planning today.

P.S. Also, please don't miss the national conference call this Sunday, at 9:00 pm EST, to discuss the May 15th 5G protest. (Details below.)



Will you be joining us on May 15th?



Dear friends,

The May 15th National Day of 5G Action is rapidly approaching. Many of our affiliated organizations across the country will be hosting peaceful rallies in front of wireless carrier stores from **12pm to 1:30pm (local time)** to express their concerns about the potential health impacts of 5G on behalf of the most vulnerable members of society—our children.

We are reaching out to see if you and members of your organization will be participating in this historic event.

If you are planning an event, we'd like to add you to our interactive map so that others who want to participate can learn the details of where and when your event will take place. Also, we'd like to be able to tell local press where there is an event happening near them.

So if you're planning to be part of this historic day of action, please drop us a note at info@americansforresponsibletechnology.org and let us know!

Please join us this Sunday evening for a national conference call to discuss the May 15th Day of Action.

Topic: May 15th Organizing Meeting
Time: Apr 28, 2019 9:00 PM Eastern Time (US and Canada)

Join Zoom Meeting
<https://zoom.us/j/313758136?pwd=MWp3SWw0VWRBTllqdldKYitjYW5iQT09>

Password: ART428 *(Please do not share outside of your group)*

One tap mobile
+19292056099,,313758136# US (New York)
+16699006833,,313758136# US (San Jose)

Dial by your location
+1 929 205 6099 US (New York)
+1 669 900 6833 US (San Jose)
Meeting ID: 313 758 136

Find your local number: <https://zoom.us/u/awBz9k8CL>

Thank you for all you are doing to bring attention to this critical emerging public health issue. We hope you will join us on May 15th.

– The Grassroots Team

Australia – barrister Ray Broomhall pathway to protect people from smart meters and towers

Australian Telcos Forced To Cancel 5G Rollout In Sydney

this is a barrister's advice and is not light reading

[Arpansa.gov.au](http://arpansa.gov.au) At ARPANSA, we set the safety standard sets limits for exposure to radio frequency (RF) electromagnetic energy (EME) that is emitted by mobile phones...

This is short for Australian Radiation Protection and Nuclear Safety Agency which is a government agency

I just received access to an important development in Australia in the form of an update from Barrister Ray Broomhall who has brilliantly found a legal pathway to protect people from smart meters and towers. (correspondent)

“The simplest argument is that ARPANSA cannot give medical advice. Only medical practitioners are qualified to do so. Medical opinion always has health precedence over that of a scientist in law.

The precautionary principle must prevail as a matter of State and Federal Policy. ARPANSA must follow this precautionary principle as a matter of law, as it is encoded in all legislative instruments.

If ARPANSA doesn't apply the precautionary principle then they are acting outside of the objective of the ARPANSA Act and thus its scope of power. I pushed on this fact and ARPANSA were forced to concede. See their latest disclaimer on the ARPANSA website saying they don't give medical advice, the disclaimer is actually the precautionary principle at play I suggest you get a medical opinion as to whether EMR emissions from the smart meters are safe or not. Provide your doctor with the science. Once you have a positive medical opinion, send a copy of it to the power utility with a letter outlining your fears of harm based on that medical opinion. Your letter with the medical opinion and proof you sent it is powerful evidence. Without it lawyers such as myself can't proceed.

If the utility ignore your letter and they continue to emit or threaten to emit they have technically assaulted or threatened to assault you with electromagnetic radiation in the legal sense. A simple remedy can then be instituted using your letter as evidence they have not heeded medical advice. We can then commence abatement to stop emissions through councils or in the alternative make court application for restraint via either a peace and good behaviour order, Apprehended Violence Order or protection order depending in which State you reside.

Private criminal prosecutions can also be auctioned against emitters, Councillors etc if they ignore your letter under various criminal offense provisions. Corporations are not exempt from criminal prosecution. There are many other options also with I have used successfully also. Quite frankly I have been very strategic in the way I have been applying the law throughout Australia to get to this point. I was the lawyer behind Dundas Street in Coogee in Ranwicks 5G war with TPG, I also had 30 others communities in Qld, Vic and NSW also fighting TPG. We eo(?) they pulled out. I was

the lawyer behind Wilson's Creeks fight with Telstra, we won both of these fights in using the precautionary principle, forcing Councils to either reject development or to issue abatement notices to stop emitting after development had been approved.

ARPANSA Standards are now a dinosaur and completely irrelevant. Dr Rodney Croft and ICNIRP's nocebo effect actually helps the cause as we can now sue for the anxiety caused by the emitters actions. Fear of harm is anxiety and a powerful tool I use to fight back. Telco's and utility companies cannot hide behind the Standards anymore. The Criminal codes in each State work independant of ARPANSA, ACMA, ICNIRP, the WHO etc and various Federal legislative instruments such as the Telecommunications Act etc. I will present this at a conference in WA this weekend with my colleague Greg Melick SC. Greg is a very prominent barrister, current Deputy President of the AAT, he is also the Integrity Commissioner for Tasmania.

Also speaking is Dr Cooper, he is regarded as the foremost expert by the Courts at present regarding EMR health, he was an expert witness in the McDonald v Comcare case alongside Dr Bruce Hocking which set precedence for EHS in this Country. Our talks will arm medical practitioners and lawyers with the tools to fight. Our talks will be recorded and will be put on social media. I have so much to explain over and beyond this email. Hopefully this will empower you and others and if everyone has knowledge of this process, spread it world wide we might just win this war.

Please note that if only one person is effected, the Courts will look after that individual favorably against the greater need of the masses need for luxuries and essentials such as better communications etc. The High Court has clearly ruled on that. If after all that, you need help, just google me,

find my number and give me a call.

Kind regards,

Ray

Raw energy and conviction

Dear Friends in the UK and across the Globe,

the 7th of April is ☐ WORLD HEALTH DAY☐ and this day is a prime opportunity for ALL of us to share with the world the dangers that 5G (☒obligatory exposure to constant & dangerous WiFi radiation☒) poses to EVERYONE. Let's make a GLOBAL IMPACT with this 5G campaign. Let's make it go VIRAL. We can all do something & this is our chance to have our say about 5G. If you can't organise a Demo with your neighbours/family/friends – no worries – just share a picture of yourself. Write your words on a piece of card, craft paper, use the back of a cardboard box, or write on a wall with a STRONG message & then post it across Social Media. Use poster paint, marker pen, charcoal, chalk – there is no perfect way to do this!

Please share the event, post on your FB page and/or send this on to your Politicians & Councillors (as well as to your local Council FB pages), to National & Local Media, (Newspapers, BBC, Channel 4 etc etc) Local & Regional Radio stations, The National Trust, NHS. Health Institutions – (especially Cancer charities), Wildlife, Nature & Environmental charities & Trusts, Telephone Companies, Bristol University (and all the Universities that are taking part in this 5G 'experiment') – &

alert Journalists & local papers to report on this campaign. EVERY photo will have an impact. EVERY photo matters. EVERY message matters. Hashtag [#Stopthe5Ghealthrisk](https://twitter.com/Stopthe5Ghealthrisk).

For those of you who are camera/social media shy – get creative and take a photo of your protest banner next to your pet dog (5G technology will harm our pets too) or photograph your children's toys next to a strong message about radiation harming our children. We are counting on you!

Let's hold these corporations & our Government accountable & responsible for our rights & for our health. Thanks SO MUCH for your support & for being a part of the solution. It is our sovereign right to be protected from harm & we have RIGHTS. Health & safety before corporate greed. Here's to a future world FREE of harmful technology.

National 5G Day of Action DC, Maryland, and Virginia

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Password: ART428 *(Please do not share outside of your group)*

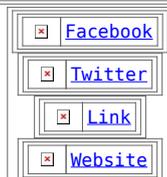
One tap mobile
+19292056099,,313758136# US (New York)
+16699006833,,313758136# US (San Jose)

Dial by your location
+1 929 205 6099 US (New York)
+1 669 900 6833 US (San Jose)
Meeting ID: 313 758 136

Find your local number: <https://zoom.us/u/awBz9k8CL>

Thank you for all you are doing to bring attention to this critical emerging public health issue. We hope you will join us on May 15th.

– The Grassroots Team



Copyright © 2019 Grassroots Environmental Education, All rights reserved.
You are receiving this email because of your interest in wireless radiation.

Our mailing address is:
Grassroots Environmental Education
52 Main St
Port Washington, NY 11050-2969

[Add us to your address book](#)

Just how insane is the deep state?

Hello beautiful people of planet Earth

I have just returned from a two day course on the Scenar Healing technology ("Pain Genie", accelerated healing) that the Russians developed for their astronauts whilst in space. This technology uses Natural frequency to heal rather than synthetic medicines which, as we know, merely damage health. At this course they spoke of WiFi and its detriment to humanity, which, when spelled out in detail is truly frightening. WiFi apparently, works on 2.4 Gigahertz, which is the **exact** frequency that breaks down the molecules of water, of which humans are made up of by 60%. This is why so many of us are getting ill.

5G on the other hand (which is planned), works on the frequency of 6 Gigahertz which will destroy water molecules at an even faster rate. Add the fact that 6 Gigahertz is also the **exact** frequency range that destroys the molecules of Oxygen. 6 Gigahertz changes the Oxygen Molecule to a Ozone Molecule. The transference of Oxygen to Ozone needs no explanation as to how dangerous that will be. Add to that the fact that millions of trees are being cut down all over the UK does not bode well for the future of the British, either.

I have just got off the phone to a scientist friend who confirms the facts and figures stated above are 100% correct. 5G must **NOT** be allowed to happen or humanity is finished. We must make known how dangerous this technology is, to all we know.

Using microfiber is the non dangerous option which is just as effective, although a little more costly to install. The Deep State know exactly what they are doing and must have contingency plans for themselves.

Get rid of your WiFi, mobile phones, wireless landline phones, Smart meters, and smart televisions; and encourage your neighbours to do the same. The above information **MUST** be made known to all.

Mike Watson via Jacqui Stevens

Response:

Dear Brian

I'm very grateful to Mike Watson for writing about 5G but I have to correct a couple of points. Our current 4G wireless technology does work on 2.4 GHz, that is correct. A microwave oven works on 2.45 GHz so we can easily see that WiFi is cooking us and that is certainly why we are all becoming ill in multiple ways. It also accounts for the loss of 80% of our insects in the last 20 years, and massive increases in neurological diseases, autism, ADHD, suicides, depression, diabetes, cancer, cardiac problems and [fill in all other diseases here].

The danger from 5G is not just that one of the frequencies it will operate at is 60 GHz (not 6 as stated) and that this will asphyxiate us for the reasons Mike states, but because 5G uses phased arrays of thousands of antennas, unlike the single antenna of 4G and these will be situated right outside homes and under manhole covers and in street furniture. These phased arrays make beams of electromagnetic radiation like lasers, and like lasers they do not attenuate so much over distance. Imagine being hit by an EMF beam millions of times all day every day. 5G will use a whole range of frequencies, from the very low, which also cause catastrophic damage (please listen to any of Barrie Trowers' videos) up to 95 GHz. Many long-haul planes have been fitted with public access points operating at 28 GHz from satellites and a woman died a couple of weeks ago. A public access point is, by definition, designed for public areas, and not for small, enclosed spaces, especially vehicles with metal walls, in which phones go to maximum power searching for a signal and the EMFs are bounced off the metal walls onto the body repeatedly. And the creme de la creme is that 23,000 satellites are planned to "blanket" the Earth with 5G. There will be no escape anywhere on the planet if we do not stop this madness.

There is so much more that should be said about the lethality, criminality and monumental madness of 5G, but I just wanted to add a correction to what Mike said in case people are confused. The pushback is now starting in a number of countries and cities. We need the public to understand the

omnicidal threat that is 5G and drop everything else in their lives, as I have done, until this is stopped. Whatever they are currently doing is as nothing to the threat of 5G for with 5G there would be no future for any living organism on this planet – humans, animals, insects, trees – everything.

I know it is hard to believe that something like 5G could be allowed to come to fruition like this, but the regulatory agencies have long been captured by industry and are doing this in defiance of all national and international law. Mark Steele is right: 5G is a crime against humanity. It is not only genocide, but ecocide – in fact, omnicide. We must show decision-makers that we will hold them accountable if they go ahead with rolling out 5G.

Many thanks from Claire at the International appeal to Stop 5G on Earth and in Space (www.5gspaceappeal.org/).

Lawmakers hitting the brakes on 5G

USA, 24 March 2019	Portland Oregon city officials state clear opposition to the installation of 5G networks around the city, supported by the mayor and two commissioners.
Italy, 28 March:	Florence applies the precautionary principle , refusing permissions for 5G and referring to “the ambiguity and the uncertainty of supranational bodies and private bodies (like ICNIRP)”, which “have very different positions from each other, despite the huge evidence of published studies”.

<p>Italy, 28 March:</p>	<p>One Roman district votes against 5G trials, with others expected to follow. Other motions to Stop 5G are expected in the four regional councils, one provincial council and other municipal councils of Italy.</p>
<p>Russia, 28 March:</p>	<p>The Russian Ministry of Defence refuses to transfer frequencies for 5G, which effectively delays any 5G rollout there for several years.</p>
<p>Belgium, 31 March:</p>	<p>The Belgian Environment Minister announces that Brussels is halting its 5G rollout plans, saying, “The people of Brussels are not guinea pigs whose health I can sell at a profit.</p>
<p>Germany, 4 April:</p>	<p>Germans sign a petition en masse to force the German Bundestag to debate 5G.</p>
<p>Netherlands, 4 April:</p>	<p>Members of Parliament in the Netherlands insist that radiation research must be carried out before any approval of the 5G network.</p>
<p>USA, 5 April:</p>	<p>California Supreme Court Justices unanimously uphold a 2011 San Francisco ordinance requiring telecommunications companies to get permits before placing antennas on city infrastructure.</p>
<p>Switzerland, 9 April:</p>	<p>The Canton of Vaud adopts a resolution calling for a moratorium on 5G antennas until the publication this summer of a report on 5G by the Swiss Federal Office for the Environment.</p>

Switzerland, 10 April:	Geneva adopts a motion for a moratorium on 5G , calling on the Council of State to request WHO to monitor independent scientific studies to determine the harmful effects of 5G.
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Savvy gas engineer with courage

(copied and pasted from FB) Smart meters and health problems

I have noticed a few gas engineers try to add to this page. I would like to say to them, do your research. I am a property developer I work with gas, my business partner is gas registered and my close friend is a commercial electrician who we use on our work. We don't deal with meters as such but we do deal with gas and electric and do deal with the power gas exciting the meters so I am confident to say we have enough knowledge about them.

All 3 of us have been awake to this for many years, not just smart meters or even radiation. Every house we work in the first thing we do is check for a smart meter, if there's is one we go back to the van and get our tool and show the property owner the dangers. We tell them to get rid! Our aim is to wake up the world, some people look at people like us as conspiracy theorists but I only ever go by facts. All 3 of us are the same and wherever we go we show the facts. Do you research get the tools needed to prove to the world what is gong on.

I am a real pusher, I send myself a bit crazy crazy sometimes because I don't stop but if this is what it takes. It's worth

getting more gas engineers on this page, they (we) deal with the public and can get the message outside. If one gas/electric engineer could do his research and see the facts he could wake up 100s of people per day, people will listen to a professional. As for anyone who is the opposite I have a radiation meter. I can (show) videos to end any discussion, like I said I go by facts not memes or mainstream media.

Radiation kills and smart meters are deadly

Edward Smith

11.42 am 18 April 2019

2019 Letter for MPs, City Councils etc. – Cathy Dowd – tons of links

[CATHY DOWD · THURSDAY, FEBRUARY 21, 2019](#)

(1) Safety Code 6(2015) Evidence of harm has been reported to Canadian Gov. This means the radiation is ILLEGAL
<https://www.facebook.com/notes/smart-meters-health-problems-uk/safety-code-6-2015-applicable-to-every-country-by-professor-curtis-bennett-this-/2138400496396116/>

(2) RF Radiation from Smart Meters, Wifi, Smart Phones etc. is not insured. Lloyds of London set the Standard for the World, if they wont insure it no-one will.
<http://stopsmartmeters.org.uk/lloyds-of-london-excludes-liability-coverage-for-harm-from-wireless-radiationrf-emf/>
<https://tinyurl.com/y4zudnds?fbclid=IwAR10dXi8nMM9sy6ERB7Suhtz0c5eCwqJCWJvGzVE1hJTS6yIG-28vghC1kQ>

- (3) Additional information PROOF RF Radiation is detrimental to health.
<https://www.facebook.com/notes/smart-meters-health-problems-uk/proof-rf-radiation-affects-health/2272118049691026/>
- (4) More info on Professor Curtis Bennett, see his Website. Click on 'News and Updates' and scroll to subject you need.
<http://thermoguy.com/>
- (5) Professor Curtis Bennett already has Legal Avenues to halt 2 Smart Meters contracts in BC Canada.
<http://thermoguy.com/re-immediate-suspension-of-b-c-smart-meter-programs-damage-is-measurable-by-the-second/>
- (6) Idiot science used to bypass all Laws and Codes, They used a plastic head, no biology was used. .
<http://thermoguy.com/this-is-the-global-science-used-for-safety-of-wireless-communications-to-bypass-all-jurisdictions/>
- (7) For Wifi safety on planes Boeing Engineers used potatoes, no biology was used.
<http://thermoguy.com/boeing-engineers-use-potatoes-for-wi-fi-safety-on-airplanes/>
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<https://www.smombiegate.org/britains-first-5g-court-case-and-the-people-won/>
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<https://ecfsapi.fcc.gov/file/7022117660.pdf?fbclid=IwAR2xn6MUbXqLk-xBsXC2E7VfDpSK5N9gxMeL-fywKdd0fXrFj2N1X1rJod8>
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https://l.facebook.com/l.php?u=http%3A%2F%2Fsaferemr.com%2F%3Ffbclid%3DIwAR20Ym9gVVtKdYrNcHEfGMQuLyDHIbmXBaSxp85q3kCOT_-q1cYI8LLpex0&h=AT27vx63byB-gHugNc58z1KuBdCXBwnG0ooQp8ZS-lXV-wnjwUAt-T3y90Y0DFRN0AlWl_40914kr-3cB6-p6wykPRpDkvL0fU6knT8HYAtB8t6pM_zFMckChw
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EHTRUST

https://l.facebook.com/l.php?u=https%3A%2F%2Fehtrust.org%2Fscience%2Ftop-experimental-epidemiological-studies%2F%3Ffbclid%3DIwAR0JrMpJoow8wI0KUgsZvStV1yKnw2-ghRtr8FnYWEDf_ltZ-7V-2lrK8yk&h=AT3EZHiSjWYkv2BmuCXDgGhtL_ZSA2B MU59XuKjmXt6godPGQXr8dSwZL2YYPb1LSI4qUldS8q6MFjMl1Iugm6AAGZYnykXYtA-IQdSqmW0GK9Sc_pAvSRHqA

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Powerwatch

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UK

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The

Lancet

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(30)

Dr.

Neil

Cherry

New

Zealand

http://neilcherry.nz/document-downloads.html?fbclid=IwAR10XAgLI_a-Pbu49GFBVsb28J2lnn0S1KNPWBZTgQtq61Nk-USwRmxkrw

Please treat this as an UNPRECEDENTED GLOBAL EMERGENCY.

Ive already written to Public Health England as have many other people and have copies of their ridiculous replies. They know they are not up to date and sending out incorrect information by telling everyone the radiation is safe when it is in fact ILLEGAL and no-one will INSURE it.

Anyone who does not believe Professor Curtis in the link Safety Code 6(2015) has to disqualify him. In his own Words. 'THIS IS NOT A DEBATE'

Please let me know what action you will be taking to stop this crime. Anyone not doing their job properly is LIABLE and will be prosecuted. We have already won a case in Gateshead, Newcastle against the City Council re the new 5G Mobile Network. More cases are to follow.

Regards....

WE ARE FACING A 5G CRISIS!!! PLEASE JOIN THE 5G DAY OF ACTION

Website, www.5gcrisis.com

See message from Americans for Responsible Technology below: "Pushing Back Against 5g"

"Americans for Responsible Technology is planning a nationwide Day of Action on May 15th, calling on wireless companies (Verizon, Sprint, AT&T and T-Mobile) and their sub-contractors (Crown Castle, ExteNet Systems and other antenna installers) to suspend the deployment of small cell wireless antennas in residential neighborhoods until such time as chronic, low level exposure to 5G radio-frequency (RF) microwave radiation can be proven completely safe."

Please join or organize an event in your community.

Resources, guidance, and support can be found at www.5gcrisis.com.

OUR FUTURE BELONGS TO US, NOT TO TELECOM.

<https://5gcrisis.com>

Link to post to share on Facebook:

[https://www.facebook.com/whatis5g/posts/2324125070990555?__xts__\[0\]=68.ARCv90WJkY9PbTK6RquNG5I-](https://www.facebook.com/whatis5g/posts/2324125070990555?__xts__[0]=68.ARCv90WJkY9PbTK6RquNG5I-)

[491Sx0lYYQVYnxuBb9ABXSShENeRSK-xze-kB2Xlr3IKQy7WU1c0CRH1A6sWTjbX_ciaiY3n7eE9HJs-FT7Ch8CcvXlFQ0wPeqlQ19zwf_nEE-K9eiDiKQdMefdRrvPIoTlGb2s89BZc6_0eoLIH8GIa1650LX-ctBzEhyE49Pk5gN04S3ftyAMq-klbd-xajGZZlVxwuZqpb7244t44kMtpIn9wTmqE7lsXyEmVcEYIX97ZhWM44dvBrJtzUJjzV4S8oEFreg2l0bdU0yC_ng00VuGI0XdDTqbJlam09GXDI6XC8XliMZg1lBt1E2SbGV8W&__tn__=-R](https://www.facebook.com/whatis5g/posts/2324125070990555?__xts__[0]=68.ARCv90WJkY9PbTK6RquNG5I-491Sx0lYYQVYnxuBb9ABXSShENeRSK-xze-kB2Xlr3IKQy7WU1c0CRH1A6sWTjbX_ciaiY3n7eE9HJs-FT7Ch8CcvXlFQ0wPeqlQ19zwf_nEE-K9eiDiKQdMefdRrvPIoTlGb2s89BZc6_0eoLIH8GIa1650LX-ctBzEhyE49Pk5gN04S3ftyAMq-klbd-xajGZZlVxwuZqpb7244t44kMtpIn9wTmqE7lsXyEmVcEYIX97ZhWM44dvBrJtzUJjzV4S8oEFreg2l0bdU0yC_ng00VuGI0XdDTqbJlam09GXDI6XC8XliMZg1lBt1E2SbGV8W&__tn__=-R)

...and please share this message widely.

Thanks,

Kate



Breaking News: European Parliament Report re: 5G | And...54,000 Germans petition Parliament to stop 5G on health grounds

EU Parliament Report on 5G Deployment

Blackman C, Forge S. 5G Deployment: State of Play in Europe, USA, and Asia. Study for the Committee on Industry, Research and Energy, Policy Department for Economic, Scientific and Quality of Life Policies, European Parliament, Luxembourg, 2019.

Following is an excerpt about health and safety from a new report published by a European Parliament committee regarding the deployment of 5G in Europe, the U.S., and Asia:

5G Electromagnetic Radiation and Safety

“Significant concern is emerging over the possible impact on health and safety arising from potentially much higher exposure to radiofrequency electromagnetic radiation arising from 5G. Increased exposure may result not only from the use of much higher frequencies in 5G but also from the potential for the aggregation of different signals, their dynamic nature, and the complex interference effects that may result, especially in dense urban areas.

The 5G radio emission fields are quite different to those of previous generations because of their complex beamformed transmissions in both directions – from base station to handset and for the return. Although fields are highly focused by beams, they vary rapidly with time and movement and so are unpredictable, as the signal levels and patterns interact as a closed loop system. This has yet to be mapped reliably for real situations, outside the laboratory.

While the International Commission on Non-Ionizing Radiation Protection (ICNIRP) issues guidelines for limiting exposure to electric, magnetic and electromagnetic fields (EMF), and EU member states are subject to Council Recommendation 1999/519/EC which follows ICNIRP guidelines, the problem is that currently it is not possible to accurately simulate or measure 5G emissions in the real world.”

*For more information including a link to the full report go to: **[5G Wireless Technology: Is 5G Harmful to Our Health?](https://www.saferemr.com/2017/09/5g-wireless-technology-is-5g-harmful-to-our-health/)***

<https://www.saferemr.com/2017/09/5g-wireless-technology-is-5g-harmful-to.html>

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54,000 Germans petition Parliament to stop 5G auction on health grounds

Telecompaper, 8 April 2019

A petition asking the German Parliament to stop the award of 5G frequencies has reached 54,643 signatures, surpassing the

quorum, according to an environmental campaign group called 'Diagnose: Funk'. The German Parliament may decide to suspend the procedure to award 5G frequencies based on "scientifically justified doubts about the safety of this technology", according to the petition.

Scientists and doctors have warned against a nationwide introduction of 5G mobile standards, the petition said. In particular, the new 5G standard uses millimeter waves up to 200 GHz. This radiation is absorbed by the human skin or plant leaves, carrying the risk of cancer, cellular stress and genetic changes, among other diseases, according to the petition.

<https://www.telecompaper.com/news/germans-petition-parliament-to-stop-5g-auction-on-health-grounds-1287962>

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Google translation from German

54,000 citizens demand: Bundestag must suspend 5G frequency auction! Press release from diagnostik: funk

Press release from diagnostik: funk from 5.4.2019

54,000 citizens demand: Bundestag must suspend 5G frequency auction!

5G petition to Bundestag reaches quorum; Scientists warn again about health effects by 5G in 3sat broadcast

Stuttgart, 05.04.2019: A petition to the German Bundestag to stop the 5G mobile radio reached the quorum yesterday evening with 54.643 co-signers and must be treated thus by the Bundestagspetitionsausschuss. The purpose of the petition: "The German Bundestag may decide to suspend procedures for the award of 5G mobile communications licenses and to stop the introduction of the 5G mobile radio standard, as long as there are scientifically justified doubts about the safety of

this technology.”

Link to the petition: https://epetitionen.bundestag.de/petitionen/_2018/_12/_05/Petition_88260.nc.html

Jörn Gutbier, chairman of diagnostose: funk, recalls that to date there is no technology assessment for 5G. Jörn Gutbier continues: “The Petitions Committee must immediately implement the petition’s demands. Many renowned scientists criticize the 5G expansion as a field trial, most recently last night in the 3sat show ‘nano’. The fact that more than 50,000 people are calling for the 5G construction stop within one week shows just how great the concern about cell phone radiation and the possible health consequences is. “

Last night’s 3sat science show ‘nano’ (4.4.2019) featured leading scientists who warn of the already known risks of mobile phone radiation and urge further research.

- 5G post in ‘nano’: <http://www.3sat.de/mediathek/?mode=play&obj=80106>
- The REFLEX study mentioned in the ‘nano’ article: <http://www.aerzte-und-mobilfunk.eu/ausgewaehlt-e-studien/reflex-studie-mobilfunk-forschung-krebsrisiko-dna-schaedigung/>
- Legal confirmation of the REFLEX study: <https://www.diagnose-funk.org/publikationen/artikel/detail?newsid=844>

The concern of the over 54,000 petition signatories must be taken seriously by the Bundestag, the treatment of the petition may not be dragged out. The rapporteur of the Committee on Petitions must propose the application of the rule in section 7.13.2 of the procedural principles: “In the event of a contested measure being forthcoming, it may be proposed in particular to request the Federal Government or

the competent authority (No 5) to suspend the operation until the Petitions Committee has decided on the appeal. "This means: Immediate suspension of the current 5G frequency auction is possible, especially as there is no technology assessment for 5G to date.

Furthermore, diagnose: funk demands a Bundestag hearing on the risk status of 5G. To this end, the Bundestag must invite independent scientists and consumer protection organizations.

Jörn Gutbier, chairman of diagnostose: funk: "Especially at 5G shows how the study situation is distorted by the influence of the mobile phone lobby. The Federal Government's opinion on the risks is based on trivializing and false information. But the population can no longer be deceived, as shown by the success of this petition. "

<https://www.diagnose-funk.org/publikationen/artikel/detail&newsid=1380>

—

Google translation from German

Petition website

Petition 88260

Radiation Protection – Suspension of Procedures for the Award of 5G Mobile Radio Licenses / No introduction of the 5G mobile

radio standard without safety clearance from 05.12.2018

Text of the petition

The German Bundestag may decide to suspend procedures for the award of 5G mobile communications licenses and to stop the introduction of the 5G mobile communications standard, as long as there are scientifically justified doubts about the safety of this technology.

Reason

Hundreds of undersigned scientists and doctors from dozens of countries warn against a nationwide 5G mobile phone standard. Many read on recently

https://epetitionen.bundestag.de/petitionen/_2018/_12/_05/Petition_88260.nc.html

5G Wireless Technology: Is 5G Harmful to Our Health?

For more information including a link to the full report go to: [5G Wireless Technology: Is 5G Harmful to Our Health?](https://www.saferemr.com/2017/09/5g-wireless-technology-is-5g-harmful-to.html)

<https://www.saferemr.com/2017/09/5g-wireless-technology-is-5g-harmful-to.html>

See the bottom of this page for additional resources.

5G Deployment

Blackman C, Forge S. *5G Deployment: State of Play in Europe, USA, and Asia*. Study for the Committee on Industry, Research and Energy, Policy Department for Economic, Scientific and Quality of Life Policies, European Parliament, Luxembourg,

2019.

Download the report at:

[http://www.europarl.europa.eu/RegData/etudes/IDAN/2019/631060/IPOL_IDA\(2019\)631060_EN.pdf](http://www.europarl.europa.eu/RegData/etudes/IDAN/2019/631060/IPOL_IDA(2019)631060_EN.pdf)

Excerpts

“It is becoming clear that 5G [fifth generation cellular technology] will cost much more to deploy than previous mobile technologies (perhaps three times as much) as it is more complex and requires a denser coverage of base stations to provide the expected capacity. The European Commission has estimated that it will cost €500 billion to meet its 2025 connectivity targets, which includes 5G coverage in all urban areas.

As 5G is driven by the telecoms supply industry, and its long tail of component manufacturers, a major campaign is under way to convince governments that the economy and jobs will be strongly stimulated by 5G deployment. However, we are yet to see significant “demand-pull” that could assure sales. These campaign efforts are also aimed at the MNOs [mobile network operators] but they have limited capacity to invest in the new technology and infrastructure as their returns from investment in 3G and 4G are still being recouped.

The notion of a “race” is part of the campaign but it is becoming clear that the technology will take much longer than earlier generations to perfect. China, for instance, sees 5G as at least a ten-year programme to become fully working and completely rolled out nationally. This is because the technologies involved with 5G are much more complex. One aspect, for example, that is not well understood today is the unpredictable propagation patterns that could result in unacceptable levels of human exposure to electromagnetic radiation.”

“Although lower frequencies, many in the UHF [ultra high frequency] range, are being proposed for the first phase of 5G networks, much higher radio frequencies are also projected in bands traditionally used for radars and microwave links.

Whether this will transpire is still open to question. These frequencies are being commercially tested by some (e.g. by AT&T in the USA at 28 GHz [gigahertz]). The new bands are well above the UHF ranges, being either in centimetric (3-30 GHz) or in millimetric bands (30-300 GHz) and popularly branded "mmWave", but present technical challenges that are expensive to solve."

"Although many 5G networks currently being piloted will use the much lower bands, those upper frequencies being proposed for the future may offer propagation ranges only in the order of hundreds or even tens of metres. Higher frequency signals are also subject to more interference from weather – rain, snow, fog – and obstacles – wet foliage or buildings and their walls. This means that, at higher frequencies, indoor use may be problematic if based on through-wall or window penetration. Consequently, re-use of the existing UHF bands and also those just above in the 3-10 GHz range ("mid-range") are emphasised today, to give 5G signals greater range with fewer technical challenges."

"With higher frequencies and shortened ranges, base stations will be more closely packed into a given area to give complete coverage that avoids "not-spots". Ranges of 20-150 metres may be typical, giving smaller coverage areas per "small cell". A cell radius of 20 metres would imply about 800 base stations per square kilometre (or small area wireless access points (SAWAPs), the term used in the European Electronic Communications Code (EECC)). That contrasts with 3G and 4G which use large or "macro" cells. Traditionally they offer ranges of 2-15 km or more and so can cover a larger area but with fewer simultaneous users as they have fewer individual channels."

5G Electromagnetic Radiation and Safety

"Significant concern is emerging over the possible impact on health and safety arising from potentially much higher exposure to radiofrequency electromagnetic radiation arising from 5G. Increased exposure may result not only from the use of much higher frequencies in 5G but also from the potential for the aggregation of different signals, their dynamic

nature, and the complex interference effects that may result, especially in dense urban areas.

The 5G radio emission fields are quite different to those of previous generations because of their complex beamformed transmissions in both directions – from base station to handset and for the return. Although fields are highly focused by beams, they vary rapidly with time and movement and so are unpredictable, as the signal levels and patterns interact as a closed loop system. This has yet to be mapped reliably for real situations, outside the laboratory.

While the International Commission on Non-Ionizing Radiation Protection (ICNIRP) issues guidelines for limiting exposure to electric, magnetic and electromagnetic fields (EMF), and EU member states are subject to Council Recommendation 1999/519/EC which follows ICNIRP guidelines, the problem is that currently it is not possible to accurately simulate or measure 5G emissions in the real world.”

USA

“The USA is moving towards some form of rollout of mobile broadband as 5G but not necessarily in a holistic, well-orchestrated operation. It is more a set of ad hoc commercial manoeuvres. Some of these are simply rebranding existing LTE, rather than delivering novel networks. Re-use of the LTE spectrum in the UHF ranges (300 MHz to 3 GHz) is significant. The latter decision is probably warranted by its geography of large rural spaces and high density urban centres situated more on the coasts. Thus, the insistence for 5G on high centimetric bands (25–30 GHz and higher) is probably less justified than for the dense conurbations of Asia and the EU.

A significant challenge concerns the administrative local barriers to small cell rollout. The need for many small cells implies long delays and high costs. Local regulations continue to prevail despite the FCC’s mandate on a light-touch regime and minimal permit costs. This has led to a wide divide between local and central government on the principles of having to obtain permission for rollout and the charges for

that. Local administrations, especially in the larger municipalities, are at loggerheads with the FCC (Zima, 2018). Several court challenges are being made to the FCC mandate of August 2018 that overrides local objections to a “one-touch” regime.”

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Related Posts

[Scientists and Doctors Demand Moratorium on 5G](#)

[5G Wireless Technology: Millimeter Wave Health Effects](#)

[5G Wireless Technology: Cutting through the Hype](#)

[5G Wireless Technology: Newspaper editorials oppose “small cell” antenna bills](#)

[ICNIRP’s Exposure Guidelines for Radio Frequency Fields](#)

[Worldwide Radio Frequency Radiation Exposure Limits versus Health Effects](#)

[Cell Tower Health Effects](#)

[Electromagnetic Hypersensitivity \(EHS\)](#)

[Physicians for Safe Technology](#)

[Environmental Health Trust](#)

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How Harmful is 5G?

Harald Schumann and Elisa Simantke. How harmful is 5G really? Der Tagesspiegel, Jan 15, 2019. (In German. For English translation email me at jmm@berkeley.edu.)

“5G should transfer huge amounts of data quickly. But it could also harm your health. Europe’s governments ignore the danger.”

Investigate Europe reports on the current state of the science and exposes the harmful roles that the International Commission on Non-Ionizing Radiation Protection (ICNIRP), the World Health Organization’s International EMF Project, and the EU Commission’s Scientific Committee on New Health Risks (SCENIHR) have played in paving the way for the deployment of

5G without regard to health consequences.

Investigate Europe is a pan-European journalist team that researches topics of European relevance and publishes the results across Europe. The project is supported by several foundations, the Open Society Initiative for Europe, and readers' donations. Among the media partners for the report on 5G include "Newsweek Polska", "Diario de Noticias", "Il Fatto Quotidiano", "De Groene Amsterdamer", "Efimerida ton Syntakton", "Aftenbladet" and the "Falter". In addition to the authors, Crina Boros, Wojciech Ciesla, Ingeborg Eliassen, Juliet Ferguson, Nikolas Leontopoulos, Maria Maggiore, Leila Minano, Paulo Pena and Jef Poortmans contributed to this.

More about the project: <https://www.investigate-europe.eu/publications/the-5g-mass-experiment/>
<https://www.tagesspiegel.de/gesellschaft/mobilfunk-wie-gesundheitsschaedlich-ist-5g-wirklich/23852384.html>

Report – Isle of Wight Stop5G Demo report

Dear Media,



The Isle of Wight Stop5G Demo today was great! I have sent you pictures, but if they haven't arrived, they might be in your SPAM. The pictures clearly show the concern from young and old about a Technology which is being rolled out without Due Diligence, i.e. without Strategic Health or Environmental Impact Assessments and without any Public Consultations, i.e. without public consent.

To expose people and wildlife to 24/7 pulsed millimeter wave radiation is in clear breach of the Precautionary Principle and of our Human Rights, which are enshrined in UN Law. People across the world are standing up and raising their voices and Brussels, Rome, The Netherlands + most recently Florida have put a halt to 5G until more research has been conducted, in line with the plea from many thousands of scientists across the Globe. This is not "tin foil" nonsense, as our Council Leader will have us believe, but serious concern based on serious science.

If you would like more information with links to peer reviewed studies about WIFI and the perils pf 5G kindly ask me and I will send it to you. For now this will suffice:

The December 2018 issue of The Lancet stated "A recent evaluation of 2266 studies (including in-vitro and in-vivo studies in human, animal, and plant experimental systems and

population studies) found that most studies(n=1546, 68.2%) have demonstrated significant biological or health effects associated with exposure to anthropogenic electromagnetic fields.”

NB: Tomorrow is International 5G Awareness Day which coincides with World Health Day: <https://www.facebook.com/events/2979921892018729/> Our next Stop 5G meeting will be Sunday 14th of April 3pm at the Unitarian meeting House, opposite County Hall in Newport.

From the 5G Rebel ☐

From Mark Steele

CAN PEOPLE START TO USE THE FOLLOWING AND LETS STOP PUSSY FOOTING AROUND WITH THIS CRIME.

Dear Sir

I am bringing to your attention the scientifically established fact that the rollout of 5G technology and the experimental LED carrier assets are indictable offences under domestic and international laws, and a crime against humanity and the environment.

Public Health Executive have already warned of the health risk. Your involvement in the deployment, deception, misinformation and cover-up in the wider community and continued support for this crime have been noted. Any further support of this indictable offence provided by you once you have been informed by this letter will demonstrate your real intent in regard to this crime.

To mitigate your involvement, we demand that you cease and desist from your role in the rollout of 5G, so that the main architects of this criminal enterprise can be held accountable, while those who have been coerced into

involvement can be seen to have acted in less serious roles. The Accessories and Abettors act 1861 as amended by the Criminal Law Act 1977 covers all those who can be shown to have known of this human rights crime yet who have not acted in accordance with the law.

Yours sincerely

Dear Friends across the Country and Globe,

*Thanks to one friend in Austria and another in Antigua **International Stop5G Awareness Day** has now become a Hashtag Event – kindly see one enclosed poster and a link to another, both of which you can easily share online:*

<https://www.facebook.com/events/2979921892018729/>

Please can you share this widely so that people in their turn can share their pictures widely this coming Sunday World Health Day? Apart from sharing it on Facebook, Instagram and anywhere else you like as well as to the Media, Politicians, Health Institutions and Phone Companies, we now have three Twitter hashtags:

[#stop5G](#), [#stop5Gappeal](#) and [#stopthe5Ghealthrisk](#)

Let's make this big!

Many thanks from the 5G Rebel ☐

parents and concerned citizens against 5G

this is to inform you of our blog, 'Parents and Concerned Citizens Against 5G': <https://parentsandconcernedcitizensagainst5g.com/>

There's a copy of the 24 page letter that's been sent to the Prime Minister, the Cabinet, Jeremy Corbyn, members of the Shadow Cabinet and the Queen outlining the potential serious harm 5G poses and holding the government to account. I'm now in the process of sending it in letter form to every MP... 650 in total. (I attempted to send the email to them all a few weeks ago but they 'bounced' straight back.) Everything on the blog is to use and share.

Two TOO-GOOD-TO-WAIT POSTS!!!! Brussels says NO to 5g | Harvard Prof. of Law, Susan Crawford, is on to health!!

BRUSSELS...FIRST IN THE WORLD TO SAY "NO" TO 5G.

Radiation concerns halt Brussels 5G development, for now April 1st, Brussels Times

In the words of Environment minister Céline Fremault:

“The people of Brussels are not guinea pigs whose health I can sell at a profit.”

KUDOS, BRAVO....GO BRUSSELS!!!!!!!!!!!!!! Let's hope they can hold their ground!!!

<http://www.brusselstimes.com/brussels/14753/radiation-concerns-halt-brussels-5g-for-now>

This next one is also big. Susan Crawford is highly respected and has been very outspoken about the benefits of fiber, but has never yet touched on health. Now she does.

WHY 5G MAKES ME RECONSIDER THE HEALTH EFFECTS OF CELLPHONES

Susan Crawford – John A. Reilly Clinical Professor of Law at Harvard Law School. She served as President Barack Obama's Special Assistant for Science, Technology, and Innovation Policy (2009) and is a columnist for WIRED. She is a former Board Member of ICANN, the founder of OneWebDay, and a legal scholar. Her research focuses on telecommunications and information law.

https://www.wired.com/story/why-5g-makes-reconsider-health-effects-cellphones/?mbid=social_fb_onsiteshare&fbclid=IwAR2rfyHxZ_z1bcnLjZ62s_Sxvk8efAa6DR00Jdjm0twI-PkdXaroEz_pAVs