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You can read about our inquiry here: <https://committees.parliament.uk/work/89/broadband-and-the-road-to-5g/publications/>
Full Fact have published information about 5G conspiracies: <https://fullfact.org/online/5g-and-coronavirus-conspiracy-theories-came/>

You can find out how to spot false information online here: <https://sharechecklist.gov.uk/>

Written evidence submitted by the West Wales 5G and EMF Health Awareness Group

BROADBAND AND THE ROAD TO 5G

Dated 14 April 2020

West Wales 5G and EMF Health Awareness Group have created this briefing document so that the Committee may educate themselves about the detrimental environmental and health factors implicit in the planned rollout of 5G.

Where 5G has already been rolled out the fears around health are being justified - <https://mdsafetech.org/2019/07/20/the-first-report-of-5g-injury-from-switzerland/>.

Already, several Councils in the UK have called for a Moratorium - <https://www.5gawareness.com/5g/totnes-town-to-impose-5g-moratorium/>
under the Precautionary Principle from the World Health Organisation (WHO) 2004 until the health effects of 5G can be verified by independent bodies not to be harmful to humans and the wider environment. Some authorities have banned or restricted the use of WiFi in schools as a precautionary measure – <http://www.wifi-in-schools-australia.org/p/page-2.html>.

The International Commission on Non-Ionizing Radiation Protection (ICNIRP), which sets safety standards in Europe claims there are no health concerns regarding 5G. This Agency and its links with Industry - <https://www.saferemr.com/2018/07/icnirps-exposure-guidelines-for-radio.html>
clearly make it unfit for purpose. Hundreds of independent experts in EMFs have called for ICNIRP to be replaced by a truly independent agency. Public Health England who advise Government and take advice from ICNIRP have also been criticized - <https://parentsandconcernedcitizensagainst5g.com/2019/09/20/email-to-simon-mann-phe-20-09-19/?fbclid=IwAR1HvBff8j9CHR1j1JMHA4t4BFt8quUhTMJZsblmYDzkIITEn5WT-RNc5OAs>.

WHAT IS 5G?

5G is the next generation of cell phone infrastructure, yet it is categorically different than its predecessors (4G/LTE, 3G, 2G, etc.). It is not a simple upgrade. It is a major increase - and change - in the type of wireless radiation to which we will all be exposed, without consent, *whether we use this service or not*.

5G builds on existing infrastructure and, in addition, uses extremely high (millimetre-wave) frequencies of 24 gigahertz (GHz) or more - <https://www.saferemr.com/2017/08/5g-wireless-technology-millimeter-wave.html>. These 5G signals don't travel far, so antennas will be installed approximately every 2-10 homes in residential neighbourhoods -

<https://www.rcrwireless.com/20161020/network-infrastructure/att-outlines-5g-network-architecture-tag4> usually on LED street lights which come with their own dangers and health warnings (including blindness) – see Dr Mercola & Dr Wunsch on the Biological Dangers of LED Lights: <https://www.youtube.com/watch?v=mOQ2SmaDLOY&feature=youtu.be> and <http://theconversation.com/american-medical-association-warns-of-health-and-safety-problems-from-white-led-streetlights-61191>.

5G will significantly increase our wireless RF radiation (radio frequency microwave) exposure on a 24/7 and 365 days a year basis.

_ NO SAFETY STUDIES _

In February 2019 at the U.S. Senate hearing – <https://ehtrust.org/health-effects-of-5g-wireless-technology-confirmed-at-us-senate-hearing-after-senator-blumenthal-questions-industry>, senior telecom executives admitted they have not done any safety testing on 5G, nor do they plan to do any. What independent research does show is cause for alarm as thousands of studies indicate adverse health impacts from wireless radiation –

See ‘A Rationale for Biologically-based Public Exposure Standards for Electromagnetic Fields (ELF and RF)’ in the BioInitiative Report - <https://bioinitiative.org/>.

More than 10,000 peer-reviewed scientific studies - <https://www.5gspaceappeal.org/the-appeal> conducted by independent researchers from around the world demonstrate the harmful biological effects of wireless radiation. These effects include:

- * Detrimental effects on foetal and new-born development
- * Detrimental effects on young children
- * Brain tumours and other cancers
- * Neurological effects and cognitive impairment
- * DNA damage and altered gene expression in ovum
- * Impaired sperm function and quality
- * Learning and memory deficits
- * Cardiovascular disease
- * Altered metabolism

.. and more - <https://www.americansforresponsibletech.org/scientific-studies>.

_ WI-FI IN SCHOOLS _

West Wales 5G and EMF Awareness Group would urge the UK Government to remove all Wi-Fi from schools and Nursery Schools. Current levels of EMF due to Wi-Fi have been shown to be harmful to our children -

<https://www.youtube.com/watch?v=gl2boXTP6vw&feature=youtu.be&fbclid=IwAR3xygcA89Im86rDFswz5yi2a7LiflJKdYT7 EE55y13Buem4 JkWbDTvZk>. Countries around the world are waking up to the harmful effects of Wi-Fi - <https://www.wirelesseducation.org/1073-2/> and banning it in Schools and Nurseries and adopting a Precautionary Approach - <http://www.wifi-in-schools-australia.org/p/page-2.html>

Because of their developmental stages, children are much more susceptible. In addition, wireless radiation effects are cumulative, putting children at greater risk. The government’s human exposure guidelines haven’t been updated in more than 20 years, while radiation from cell phones, smart meters, cordless phones, WiFi and wireless baby monitors has increased exponentially in that time.

_ PLANET EARTH BLANKETED IN RADIATION _

In addition to millions of new base stations on Earth, the rollout of 5G will include an eventual 20,000+ satellites in low orbit, affecting the ionosphere -

<https://www.5gspaceappeal.org/the-appeal>. At this time, hundreds of 5G satellites have already been launched, with more on the way -

[https://www.upi.com/Top News/US/2019/05/23/SpaceX-launches-Starlink-satellites-from-Florida/6131558566922/](https://www.upi.com/Top%20News/US/2019/05/23/SpaceX-launches-Starlink-satellites-from-Florida/6131558566922/). The direct radiation from these satellites, combined with their contamination of the ionosphere and pollution of the global electrical circuit would likely be catastrophic to all life on Earth - <https://www.cellphonetaskforce.org/planetary-emergency>.

5G base stations and 5G devices will have multiple antennas in phased arrays working together to track and aim a narrowly focused beam to search and connect with the nearest cell, so that each 5G phone will function like a mini cell tower. The FCC has adopted rules that permit those beams to be as much as 20 watts - <https://www.law.cornell.edu/cfr/text/47/30.202>, which is ten times more powerful than levels allowed on current phones.

See: Prominent Biochemistry Professor Warns – ‘5G is the Stupidest Idea in The History of The World’ <https://www.wakingtimes.com/2019/02/20/biochemistry-professor-warns-5g-is-the-stupidest-idea-in-the-history-of-the-world/>.

_ GOVERNMENT CORRUPTION _

The USA Telecommunications Act of 1996, section 704, gives the telecom industry free reign and prohibits opposition to wireless infrastructure based on environmental effects, which includes health effects.

Thankfully, this prohibition is being challenged in US courts right now -

<https://www.cellphonetaskforce.org/5g-litigation> .

In the USA the telecom industry is supposed to be regulated by the Federal Communications Commission (FCC); however, the Harvard Center for Ethics describes the FCC - https://ethics.harvard.edu/files/center-for-ethics/files/capturedagency_alster.pdf as a “captured agency” that is dominated by the industry it is purported to regulate. The multi-trillion dollar telecom industry wields massive lobbying power and formidable public influence through pervasive propaganda, advertising and media presence. 5G is being touted as the next industrial revolution, when in fact it amounts to surveillance capitalism, in which intimate details of our lives are tracked, recorded and sold to the highest bidder.

See: UN Staffer Warns That 5G is a ‘War on Humanity’ -

<https://www.wakingtimes.com/2019/01/05/un-staffer-warns-that-5g-is-a-war-on-humanity/>

Our own UK Government is trying to relax the planning permission for the roll out of 5G in England -

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/827162/Proposed_reforms_to_permitted_development_rights_to_support_the_deployment_of_5G_consultation.pdf.

5G threatens to provoke serious, irreversible effects on humans and permanent damage to all of Earth’s ecosystems - <https://www.5gspaceappeal.org/the-appeal>.

Immediate measures must be taken to protect life in all of its forms. One solution is 'SafeG' - <https://safeg.net/>, wired public networks that allow for wireless inside homes and businesses without forcing it on everyone.

_ CONCLUSION _

Thank you for your attention. We believe that a Moratorium to halt the roll out of 5G under the Precautionary Principle should be adopted by the UK Parliament.

We have over 400 people in our group which is based in west Wales but includes many others from around the country.

****West Wales 5G and EMF Health Awareness Group****