

HIDDEN
DANGERS

WIRRAL
5G
SAFETY
REVIEW



Front cover photograph. Mast number 95 in New Ferry.

"It is not ethical to expose the public to electromagnetic fields, labelled in 2011 as '2B possible human carcinogen,' without first informing them of the risks."

Be the Change.

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1.0 GLOSSARY

1G - 5G	- First Generation – Fifth Generation of Mobile Phone Technology
4IR	- Fourth Industrial Revolution
AI	- Artificial Intelligence
ADS	- Active Denial System
AFRL	- Air Force Research Laboratory
BBC	- British Broadcasting Corporation
BT	- British Telecom
CBDC	- Central Bank Digital Currency
CCTV	- Close Circuit TeleVision
CEO	- Chief Executive Officer
CIA	- Central Intelligence Agency
CBE	- Commander of the Order of the British Empire
CND	- Campaign Nuclear Disarmament
COE	- Council of Europe
CTIA	- Cellular Telecommunications Industry Association
DC	- Direct Current
DECT	- Digital Enhanced Communications Telecommunications
DEW	- Directed Energy Weapons
DNA	- DeoxyriboNucleic Acid
EHT	- Environmental Health Trust
ELF	- Extremely Low Frequency
EMF	- Electro Magnetic Frequency / Fields
EMR	- Electro Magnetic Radiation
EPRS	- European Parliamentary Research Services
EU	- European Union
EHS	- Electro Hyper Sensitivity
EE	- Everything Everywhere Corporation
EM	- Electro Magnetic
FCC	- Federal Communications Commission
FSM	- Swiss Research Foundation for Electricity and Mobile Communication
GDPR	- General Data Protection Regulation
GHz	- Gigahertz
GPS	- Global Positioning System
GSM	- Global System of Mobile Communications

H1N1	-	Hemagglutinin 1 Neuraminidase 1 Influenza A Virus
HF	-	High Frequency
HPMW	-	High Powered Microwave Weapons
Hz	-	Hertz
IATPF	-	International Academy of Toxicologic Pathology Fellow
ICNIRP	-	International Commission Non Ionising Radiation Protection
IGNIR	-	International Guidelines on Non Ionising Radiation
IDCSP	-	Initial Defence Communications Satellite Program
IARC	-	International Agency Research on Cancer
IEEE	-	Institute of Electrical and Electronics Engineers
IMF	-	International Monetary Fund
IOT	-	Internet of Things
IOB	-	Internet of Bodies
IRPA	-	International Radiation Protection Association
ISDE	-	International Society of Doctors for the Environment
KHz	-	Kilohertz
LED	-	Light Emitting Diode
LF	-	Low Frequency
LRAD	-	Long Range Acoustic Device
LTE	-	Long-Term Evolution
M2M	-	Machine to Machine
MA	-	Master of the Arts
MD	-	Managing Director
MHz	-	Megahertz
MIMO	-	Multiple Input Multiple Output
Mw	-	Microwaves
MMw	-	Millimeter Waves
MPH	-	Miles per Hour
MP's	-	Members of Parliament
MRI	-	Magnetic Resonance Imaging
MSc	-	Master of Science
mW/m ²	-	Milliwatts per Squared Metre
mV	-	MilliVolts
MWR	-	Microwave Radiation
NCBI	-	National Centre for Biotechnology Information
NGO	-	Non Governmental Organisation

NIH - National Institute for Health
 NMCN - National Construction and Infrastructure Company
 NTP - National Toxicology Program
 OFCOM - Office of Communications
 PDF - Portable Document Format
 PhD - Doctorate of Philosophy
 PHE - Public Health England
 PHIRE - Physicians' Health Initiative for Radiation and Environment
 PR - Public Relations
 QC - Queens Council
 RF - Radio Frequency
 RFR - Radio Frequency Radiation
 RF EMF - Radio Frequency Electro Magnetic Frequency
 RF EMR - Radio Frequency Electro Magnetic Radiation
 RI - Ramazzini Institute
 RWTH - Rheinisch-Westfälische Technische Hochschule Aachen University, Germany
 SAGE - Scientific Advisory Group for Emergencies
 SARS COV 2 - Severe Acute Respiratory Syndrome Coronavirus 2
 SAR - Specific Absorbance Rate
 SES - Société Européenne des Satellites
 SSE - Multinational Energy Company
 STOA - Panel for the Future of Science and Technology
 TV - Television
 US/USA - United States of America
 UK - United Kingdom
 UKHSA - United Kingdom Health Security Agency
 UN - United Nations
 USSR - Union of Soviet Socialist Republic
 VLF - Very Low Frequency
 V/m - Volts per Metre
 WEF - World Economic Forum
 WHO - World Health Organisation
 WiFi - Wireless Fidelity
 WTO - World Trade Organisation
 WCR - Wireless Communication Radiation
 WW1 / 2 - World War 1 / 2

2.0 INTRODUCTION

We are a group of Wirral residents who have been drawn together by serious concerns with the accelerating deployment of 5G on our peninsula.

Our group is called 'Be the Change.'

We are at a point now where we have all had enough of decades of incremental government changes, packaged to us as beneficial, but in reality no such thing. We seek real change. Changes that are actually designed with Wirrals residents in mind, and not some corporation hiding behind the curtain. It begins here. Our group is growing. It has many grassroots initiatives already working. We are tired of the lies and omissions from both local and national governments of all colours.

5G is the latest and biggest of those government lies, a deadly serious lie.

We have conducted an extensive local investigation into this ongoing process, which is presented towards the end of this document. To precede it, we have collated extensive existing research to familiarise the reader with essential contextual information to better understand the 5G system presently being erected around us without either our knowledge or our consent.

The world in which we live has witnessed events and occurrences over the past 150 years that when connected with other events lead to the emergence of patterns. We believe that in order to better understand 5G properly, we need to connect these events. We have detailed various historical events that when taken in sequence show that the 5G deployment may well be the latest, and by far the largest, in a succession of amplifications in the earths electro magnetic environment. Each step is usually accompanied by surges in mortality, usually due to respiratory illnesses.

5G is a complex subject to describe. It involves many new untested technologies that are presently being installed all over Wirral. This report tries to map out the more important elements of the proposed system.

There is voluminous evidence that the pulsed/polarized microwave radio frequencies (RF) produced by modern telecommunication systems utilizing 2G, 3G and 4G masts and now 5G technologies cause harmful biological effects in humans and adverse effects in plants, animals and insects.

These detrimental health effects are well documented by thousands of independent scientists supported by peer-reviewed studies. There has also been a correlation between the rise of cancer, heart problems, neurological and fertility issues and a decline in insect and wildlife populations over the past few decades in line with the introduction and expanded application of wireless technology.

This evidence is being ignored, dismissed and discredited as 'non conclusive' or 'conspiratorial' by regulatory bodies and industry biased 'science'. This has allowed the uncontrolled and rapid roll out of wireless technology that we have seen over the last 25 years. This report will try to draw your attention to a handful of the more relevant studies, but there are tens of thousands to choose from.

The illusory regulatory protection proffered by Ofcom, using the guidelines from the International Commission on Non-Ionizing Radiation Protection (ICNIRP) is now wearing thin. Their seemingly 'unchallengeable' 24 year old '*thermal effects only*' guidelines are clearly flawed. They are inadequate to protect both human health and the environment, and they DO NOT provide proof of safety. That ICNIRP will not accept any liability for their guidelines is astonishing.

This document also seeks to give the reader a brief overview of what these ICNIRP guidelines actually mean, and why they are inadequate to protect human health. Mounting evidence clearly indicates that the extremely high frequency radiated power associated with modern cell communications (mobile phone) transmitters is

hazardous to human health. Surprisingly, it also emerges that certain low frequency emissions from our high usage tech also have negative health consequences. This is an extremely inconvenient truth, but one which must be addressed now before the roll-out of 5G progresses further.

There are events running parallel to this 5G rollout which may well be connected to it. Governments aligned with the United Nations and the World Economic Forum are publicly attempting to convince everyone of the virtues and the inevitability of the Fourth Industrial Revolution or the Great Reset. This report will try to connect some of these developments.

There are courageous authorities around the world that have better understood the hidden dangers of this deployment process and are attempting to slow/stop the 5G rollout. Chapter 9 discusses this.

The detailed study of Wirrals growing infrastructure fills chapter 10. You will be able to better understand the scope of the rollout and find out how many masts surround you and your family and how much radiation you are being subjected to.

We urge all public officials including, but not limited to Wirral Council, Wirral Mayor, Wirral MP's, Merseyside Police and Wirral councillors to read chapter 11, as it is a reminder of your duties and responsibilities to all Wirral residents, who rely on (and also pay for) your attention, your diligence, your integrity, your honesty and your clarity in all matters, but most definitely in this matter.

It is unknown if a change in policy from your organisation will affect the 5G deployment, as the issue may already be out of your hands, but it is essential that you better understand what is really going on here under the guise of telecommunications and join the growing movement against this dangerous unregulated toxin emitting technology to better protect Wirrals residents instead of leaving them unprotected and in the line of fire of this clear and present danger. The more this subject is talked about honestly and diligently, the more chance there is of stopping it.

We hereby demand Wirral Borough Council urgently, honestly and diligently review this wireless health related information and we further demand that you apply your duty of care obligations to protect residents and the environment from the health hazards associated with 5G deployment.

This is a complex subject with wide reaching and uncomfortable implications. 5G is being positioned as safe, environmentally friendly and essential for the economy. Whilst there may be potential economic benefits for some, this must not be achieved at the expense of human health.

The mounting body of independent scientific research can no longer be ignored or dismissed.

Ignorance and acceptance of this agenda as inevitable progress by not challenging the government and industry, will lead to incalculable and irreversible harm, which has its own huge financial implications.

In summary, there is more than sufficient independent scientific evidence to show that wireless radiation already poses a serious health risk, and that 5G will create exponentially greater levels of harm.

We hereby inform Wirral Borough Council of this impending catastrophe, and demand that it immediately adopts a precautionary approach by halting the 5G roll-out.

In reviewing this evidence, it is vital that the reader be unbiased by all personal interests, outside pressures and all connections with the telecommunications industry in order to preserve the well being of Wirrals residents.

If the reader has undergone 'persuasion' from various organisations to allow these things to pass, or have been extolled on 5G's virtues rather than its vices, please take some time to read this document and think about the consequences of allowing this agenda to progress, whilst considering that you and your progeny will have to live in this future you that you helped allow to happen. Indeed yourself and your families will be sharing the

same space as the rest of us and subjected to the same hidden dangers unless this is stopped.

We conclude by collating the more crucial elements of the report to remind the reader of the precarious position we all find ourselves in and the importance of digging deep to find your own personal courage in order to oppose something that is not in anyone's interests, other than the industry and its shadowy sponsors.

It would take another document to list all the sources of the information in this document, suffice to say it has come from extensive online searches from a large body of researchers, including but not limited to Arthur Firstenburg, Lena Pu, Barrie Trower, Claire Edwards, Mark Steele, EHT, Martin Pall, Brian Stein, as well as many official sources. Our eternal thanks go to all of these brave people.

All titles are set in black 12pt caps, all type is set in black 11pt u/l, all quotes are indented and set in blue 10.5pt, all links are set in green 10.5 pt.

This document is for general information purposes only.

Any reliance you place on the information in this guide is strictly at your own risk and you are therefore encouraged to verify any relevant data.

** As this report went to print, we discovered the first 5G safety study has been performed in Sweden in February 2022. It is listed in chapter 5 section 15. The study confirms microwave harm.

NOTE: This document also contains **LEGAL DOCUMENTS** addressed to you in chapter 11.

3.0 THE ELECTRICAL HISTORY OF PLANET EARTH

This section aims to give a very brief historical background of the dangers of electrification and wireless technology and the lead up to 5G which is now set to exponentially increase this level of harm.

3.1 The Schumann Resonance

In 1918, Physicist Winfred Otto Schumann studied the earth's ionosphere waveguide system. He concluded that our planet is surrounded by a natural vibrating electromagnetic field, operating on an extremely low frequency (ELF) of 7.83 Hertz (Hz) [Note: 1Hz = 1 sinusoidal (sine) wave or oscillation cycle completed by electromagnetic waves in one second].

This later became the basis for what is known today as the Schumann Resonance and has proven helpful for scientists to study our planet's electrical environment, weather, and seasons.

All life forms, including human, plant and insect, are electrical beings that need to harmonize with the natural radio frequencies emitted by the Earth to remain in healthy balance.

We are now increasingly exposed to man made low frequency electrical fields as well as Wi-Fi, cellular phones, cell towers, smart devices, LED lamppost transmitters and countless other higher frequency wireless devices in our homes, schools and workplaces. These devices operate by emitting frequencies ranging from 800 MHz to about 60 GHz (Note: 800 MHz = 800 million cycles per second to 60 GHz = 60 billion cycles per second.)

Natural background radiation (or that of the sun etc.) is not pulsed, as in telecommunications systems, the pulsing effect is shown to be especially biologically damaging.

Exposure levels are now 10^{18} (i.e. 1,000,000,000,000,000,000) times that of 30 years ago.

The legal exposure limits are approx. 900 quadrillion times higher than natural background microwave radiation levels (0.000.000.000.010 $\mu\text{W}/\text{m}^2$).

Our earth is one huge low frequency electrical circuit, and we are 'very low' frequency electrical beings. Our environment has been gradually charged up over the last 150 years starting with electrification, and if this isn't stopped we are about to be super charged.

The extraordinary scientist Nikola Tesla said:

'Our entire biological system, the brain and the earth itself, work on the same frequencies.'

and

'If you want to find the secrets of the universe, think in terms of energy, frequency and vibration.'

3.2 History of Electricity, Radio and Radar

In **1889** there was a huge expansion in the field of **Electricity**. 50 Hz power lines and associated harmonic radiation were introduced. Electrification has been associated with negative health impacts for humans as well as animals, birds and insects. This new power line age was coincidentally accompanied by the **Influenza Epidemics of 1889-90**, which killed approximately 1 million people.

In **1918** the **Radio Waves** era in broadcasting began, upon the United States entry into WW1. It began with the building of hundreds of powerful radio stations broadcasting at low frequencies (LF) and very low frequencies (VLF). This new radio waves era was also coincidentally accompanied by the **Spanish Flu Epidemic of 1918**, which reportedly killed between 17 and 100 million people.

Between **1955-58, Radar**, first used extensively during WW2, was deployed on a spectacular scale worldwide by the United States during the mid-1950s. The US sought to surround itself with a triple layer of protection that would detect any nuclear attack, by building hundreds of powerful early warning radar stations. Coincidentally, the **Asian Flu** outbreak began at the end of February **1957**, and killed between 1 and 4 million people.

A decade later in **1968** the United States launched the world's first constellation of **Military Satellites** into orbit at an altitude of about 18,000 nautical miles, right into the heart of the outer Van Allen Radiation Belt. Called the Initial Defense Communication Satellite Program (IDCSP), its 28 satellites became operational after the last 8 were launched on 13 June 1968. Coincidentally the **Hong Kong Flu** pandemic began in July **1968** and lasted until March **1970**, killing between 1 and 4 million people.

Some people were able to adapt to these electrical changes, but the weaker and more vulnerable people died.

These four flu pandemics correlated perfectly with four man made shifts in the earth's electromagnetic environment due to these significant advances in electrical technology. These changes also preceded large scale disappearances of the local bee populations, which we have been witnessing recently.

By allowing 5G to proliferate without any genuine oversight, we are possibly on the precipice of another huge change to the earth's electro magnetic environment, possibly the largest ever, with the 1000's of new frequencies being authorised.

3.3 History of Human Microwave Exposure Limits

These wireless technologies have been evolving over quite some time. 5G's roots even passed through Nazi Germany. A scientist by the name of Herman P. Schwan, who studied at the Kaiser Wilhelm Institute of Anthropology, Human Heredity, and Eugenics, helped conduct experiments on prisoners in the concentration camps during World War 2.

Whilst the Nuremberg Trials were occupying everyone's attention, approximately 1600 Nazi scientists were being shipped out of Germany to the US and South America in a covert CIA operation entitled Operation Paperclip.

Herman P Schwan was one of those scientists. After working for the US Navy, he was moved to Pennsylvania to continue his research into microwave energy and its effect on human beings. He later became known as the "founding father of biomedical engineering."

He is best known for many biophysical studies related to the electrical properties of cells and tissues, and on non-thermal mechanisms of the interaction of electrical fields with biological systems. His work includes the large low-frequency dielectric dispersion that is found in biological material, and electrically induced forces on cells. He was a pioneer in recognizing the possible health hazards of non-ionizing electromagnetic fields.

He proposed a safe limit for human exposure to microwave energy based on thermal effects of 100 W/m² to the U.S. Navy in 1953, which became the basis for the safety standards used in the western world. But Schwan consistently maintained that his dosage limit probably isn't safe for more than an hour.

The rationale for this safe limit still presides unchanged 70 years later, despite tens of thousands of studies undermining it.

Please think about that. A nazi scientist provided the foundational research that multiple worldwide agencies have used and still use now to set the exposure limit at such a high level, ensuring we are all subjected to 'legal' harmful exposure from non-ionising radiation on a daily basis.

3.4 History of 1G, 2G, 3G, 4G

1G was the original generation of wireless technology and allowed for analogue voice calls. It was launched in Japan in **1979**. The regulatory agencies **authorised 10 new frequencies** from the RF spectrum for the industry to use on a commercial basis. Its release coincided with the **H1N1 Flu** outbreak.

2G was the second generation introduced in Finland in **1991** and allowed data to be sent in the form of text messages. The regulatory agencies **authorised 10 more new frequencies** from the RF spectrum for commercial use.

3G was introduced in Japan in **1998** and allowed for high-speed basic internet through faster data transfer. This gave us a connection to the internet. The regulatory agencies **authorised 10 more new frequencies** for commercial use. Its release coincided with the **Bird Flu** outbreak. An upgraded 3G was introduced in **2003** with more new frequencies and was coincidentally accompanied by a **Severe Acute Respiratory Syndrome (SARS)** outbreak.

4G expanded on the 3G connection, with significantly faster data transfer, allowing us to watch full length films practically anywhere. It was introduced in **2009** in Sweden. The regulatory agencies **authorised 5 more new frequencies** for commercial use. Its release coincided with the **Swine Flu** outbreak.

Maybe all these outbreaks of respiratory illnesses were coincidentally aligned with the increased electrical charging of our world or maybe they were not, but the dates are all indisputable.

These 4 wireless developments over 43 years involved the release of about 40 new frequencies for the industry to utilise. 5G will see the release of approximately 3000 new frequencies for the telecom industry to use.

4.0 WHAT IS 5G ?

This section will seek to explain this complex multi layered new technology being deployed around us. Firstly we present an overview with an image of the electro magnetic spectrum, before describing the infrastructure, and then the technology being installed into that infrastructure. This chapter closes with a few 5G related stories to make the media within the last two years, before ending with a link to a report by Mark Steele.

4.1 Technical Overview

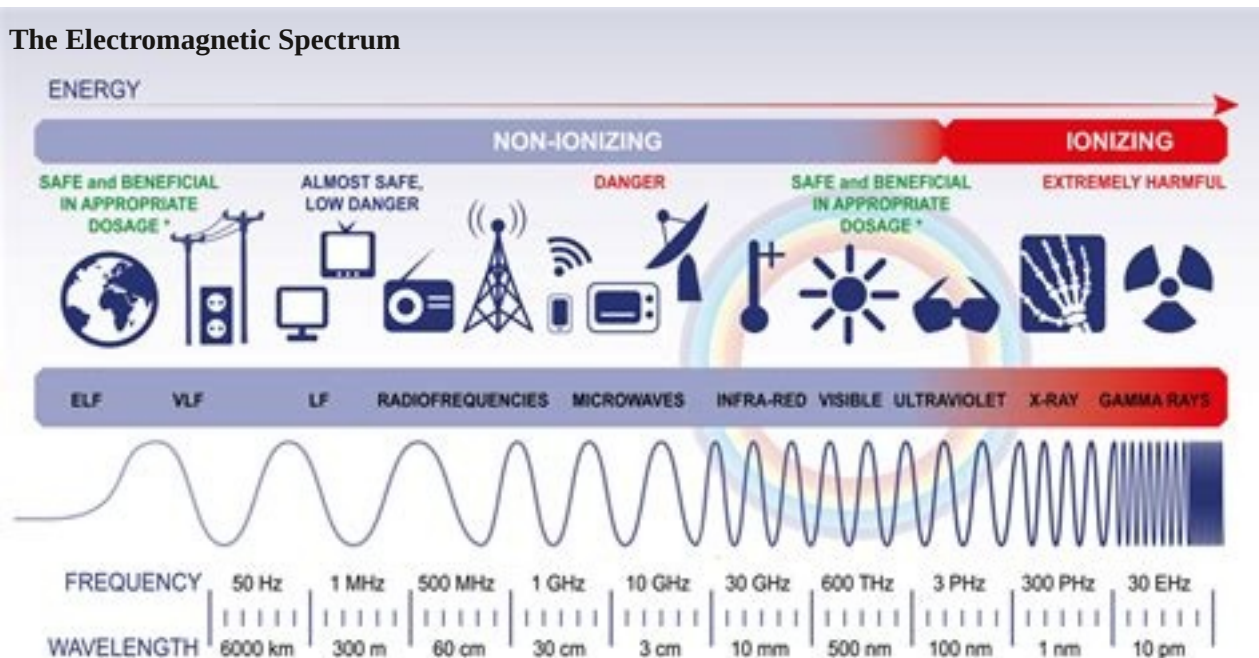
5G is not just an upgrade of 4G.

There is precious little discussion as to what 5G actually is, beyond the lame ‘quicker downloads’ sales slogans. 5G is a loose collective term for a vast array of new technologies to align with the existing telecommunications apparatus. Its hugely amplified power capacities and unlimited frequency use will be the necessary digital platform to implement huge advances in connectivity, and possibly usher in the next phase of the planned Great Reset / Fourth Industrial Revolution. It is, as we can all testify, a huge infrastructure project, deploying large numbers of new telecom masts, small cell antenna, and LED light transmitters. This runs parallel with the drive to install high speed internet capability in all homes, with up to 100 devices able to be connected. The increased capacities will mean much improved connections for every person who values device capability.

5G is necessary for many forthcoming plans, short term and long term, including but not limited to:

- massively improved connectivity, with the affirmed quicker downloads speeding up by up to 100 times,
 - Building Back Better into Smart and Resilient Cities,
 - the new planned Worldwide Digital Currency,
 - the new planned Worldwide Social Credit Control system,
 - Mass Surveillance run by Artificial Intelligence,
 - the Internet of Things (IoT) to connect and synchronise all devices,
 - the Internet of Bodies (IoB) to connect our bodies up to the internet via Artificial Intelligence,
 - Directed Energy Weapons (DEW) & High Powered Microwave Weapons (HPMW)
- ...plus more.

The regulatory agencies are going wild and authorising the use of the **entire electro magnetic spectrum**, approximately **3000 new frequencies**, for the industry to use on a commercial basis in order for 5G to work effectively. The generational steps from 1G to 4G were about auctioning off 5 or 10 new frequencies for each G. On this basis **5G should be re-named 342 G !!**



Because of this, 5G will allow much greater download speeds and imperceptible latency. It requires the densification of 4G as well as the deployment of a range of new 5G technologies on a massive scale.

5G will be in addition to the harmful electro smog already in place from 2G, 3G 4G and 4G LTE (Long Term Evolution) and not merely a replacement.

A massive densification of cell towers, small cells and transmitters will be required on our streets, buildings and outside homes, schools and public places to enable full coverage of 5G. This will significantly increase radiation exposure levels as well as making it totally unavoidable.

5G is set to use the existing frequency ranges as well as the newly auctioned off frequencies from the electromagnetic spectrum, for which the government will make a fortune. **In 2000, they auctioned 3G bandwidth for £22.5 billion.** 5G will also use military grade millimetre waves e.g. 60 GHz (60 billion cycles per second) and 125 GHz (125 billion cycles per second) as well as microwaves. These are often grouped with 'radio waves' in the industry literature as this sounds less harmful.

In addition, 5G will use phased array and beam forming technologies that will increase the effective radiated power as it gives out multiple search signals and passes through the body, using both microwave and millimeter wave frequencies of 6 GHz up to 300 GHz. The US military have tested out some of this technology to break up crowds at various protests over the last 20 years, notably the WTO meeting in Seattle in 2009.

As ultra high frequency 5G signals do not travel so far and are more easily blocked by obstacles, these small cells may be required every 100 metres or so.

It also partly explains the difficult conundrum faced by all UK councils. The councils must project a green pro tree mentality to promote their green image, yet at the same time, they must clear vast numbers of trees and foliage in order to allow for the clearer passage of the 5G signals.

The 5G roll out will increase exposure to RF wireless radiation by a factor of hundreds and full UK and world coverage is planned soon.

It should come as no surprise then that governments, regulators, telecommunication companies, phone manufacturers & the technology sector as a whole do not want us to know about just how powerful 5G will be. They don't want us to fully understand that the radiation from 5G will likely be far beyond anything we can currently understand or comprehend.

This will be an information war between companies and industries and the governments, politicians, lobbyists and media who represent them, and the parents, scientists, doctors and researchers who feel that this will likely be a true danger.

5G is a developing and growing complex collection of technologies which are compartmentalised and little understood even by those rolling it out.

The United Nations, amongst others have been calling for smart and resilient city growth for many years now, as it is one of the pledges in their UN Agenda 2030. The Wikipedia description of smart cities:

'A smart city is a technologically modern urban area that uses different types of electronic methods, voice activation methods and sensors to collect specific data. Information gained from that data is used to manage assets, resources and services efficiently; in return, that data is used to improve operations across the city. This includes data collected from citizens, devices, buildings and assets that is processed and analyzed to monitor and manage traffic and transportation systems, power plants, utilities, water supply networks, waste, crime detection, information systems, schools, libraries, hospitals, and other community services. Smart cities are defined as smart both in the ways in which their governments harness technology as well as in how they monitor, analyze, plan, and govern the city.'

Smart resilient cities cannot operate without 5G.

In chapter 8 the document will discuss how broken the world's financial system has become, and the likely new global financial system being planned which will be entirely cashless and digital. We have all witnessed the recent drive to undermine cash, calling it 'diseased' and 'inconvenient', whilst discouraging the return of change. This new financial system will require 5G in order to support its universal usage.

Mass surveillance is something that has been evolving ubiquitously around us for many years now, and 5G's capacity will enable government and its partners to monitor almost everything we do inside and outside of our homes using a process called "Backhauling." Backhaul in the context of 5G is the term used for the technological advance that enables data to be interrogated and uplifted from multiple devices and environments simultaneously; in other words spying across the whole area, leaving no chance of any privacy. The capability of interrogation and digitization of the intelligence gathered breaches almost all privacy and human rights laws. This patent <https://patents.google.com/patent/US20050220310A1/e> is one of a number that confirm the capability to interrogate sound and voice emissions through buildings to gather data on an unsuspecting population using electromagnetic hardware and software systems.

Data Protection is going to become a relic of the past in this brave new world, where data will become the new gold/oil.

The internet of things and the internet of bodies (IoT)(IoB) are also discussed in chapter 8 and are all about connecting billions of different devices from fridges to cars to street lights, and about connecting our minds and bodies to the internet. This will involve monitoring our external and internal health.

If that wasn't bad enough, another of the technologies being installed is the capability to use microwaves in the form of directed energy weapons. This technology has been understood by various militaries around the world for many decades now. The use of directional microwave radiation weapons by unknown actors on US embassies in Cuba, China and Russia, known as Havana Syndrome, is still not fully recognized by the authorities. Havana Syndrome bears all the hallmarks of microwave radiation emissions, which have left victims suffering significant and irreparable neurological damage, among other injuries. The US government has been unable to keep these weapons secret and recently passed a bill to compensate embassy staff victims. This is documented in the appendix 13.5.21 and 13.5.22, yet is now being put on our streets without our knowledge or consent. As opposed to the radio waves, used since the 1920's, which are so wide in their coverage, microwaves and millimeter waves can direct concentrated energy almost into a laser beam at any given target.

<https://info.publicintelligence.net/USAF-DEW.pdf>

Barrie Trower, who was a microwave weapons expert for the Royal Navy has written of the British Army using microwave weaponry:

'It is a perfect stealth weapon. And when governments don't like a group of people, for instance, the ladies who protested Greenham Common in England about the American missile base, they camped, they were microwaved. We microwaved Catholics in Northern Ireland to make them sick. It goes on all over the world. And it's a weapon that you don't know you're being targeted because the dose is very, very low, which is actually more dangerous than a high dose. Its very very low. And it may take a year or two, but you can cause neurological damage and cancers with low-level microwaves, and you can make all of your opponents sick. And it's a perfect weapon for a government to use.'

4.2 Telecommunications Masts (Cell Towers) and Base Stations

Large base station masts / cell towers are an obvious requirement for 5G. There has been a rapid and noticeable increase in the upgrading of existing 4G telecom masts as well as the installation of new 5G masts across the Wirral. Not all masts are base stations and what separates masts from base stations is the power output capacity.

Masts are sites for telecommunications or electronic communications with an antenna which supports the cellular networks. Usually, a mast is a high structure comprising the antenna, transmitters, and receivers. The range of operation of masts is dependent on the rated power of the transmitter, the frequency of the signal, data rate of the cellular device, reflection or absorption of radio energy from the mast by the surroundings, weather, height of masts and a few other geographical factors. The radio signal from the cellular device searches and locates the nearest mast, the antenna of the mast picks up the radio signal and then searches for the other user to establish communication. The moment the antenna locates the other user, the radio signals are transmitted back to the first user, and finally, communication is enabled by the passing of radio signals between the first and second user.

As the first and second users communicate via cell phones, there is a level of energy in the electromagnetic spectrum between the radio waves in the radio signals and microwaves. These radio waves and microwaves are a form of non-ionizing radiation.

Microwaves and millimeter waves emitted from the transmitters are absorbed by gases which are abundant in the atmosphere. Unlike the radio waves used in the previous cellular networks (2G, 3G, and 4G) which could be miles across, these millimeter waves used in 5G have a shorter range because they travel in a much more condensed area. This means that instead of the long range masts and giant structures used by previous cellular networks, millimeter wave antennas are much smaller and can be mounted on traffic lights, telephone poles, street lights and buildings. This is what makes the 5G network infrastructure far more expensive than the previous ones as these antenna need to be located every 100 metres or so. The abundance of these cells much closer to us will expose us to higher levels of radiation from this densified apparatus.

The deployment of new 5G masts and upgrades to existing masts across the Wirral must be urgently halted. We have recently surveyed the main arterial roads across the Wirral and documented the vast number of masts found. This is by no means a complete list as there may be many more on industrial estates, farms, parks and minor roads. We have taken radiation and voltage readings from each mast. Whilst these are well within the 'thermal' ICNIRP guidelines, we have shown how these far exceed the more realistic 'biological' safety limits set by the Bio Initiative Group & the Building Biology Guidelines.

Please see chapter 10 for the Wirral 5G study and note the electrical cabling that is piped into the masts. It is much more abundant and far thicker than for 4G. For a perfect example, please see the cabling for mast number **53** in Poulton Road in Seacombe. You will see a photo on the back cover. The power capacity for these masts must be huge, far in excess of what is necessary to ensure 'quicker downloads.'

Workmen using 2 plain white vans were installing hard/software into mast number **79** on the Borough Road / Balls Road junction in early 2021. They had 8 very large brown HUAWEI boxes stacked up to install. This wasn't long after the prime minister had announced that all Huawei equipment must be removed. Maybe they didn't hear him.

4.3 5G Small Cell Antenna

Small cell antenna are portable miniature base stations that require minimal power to operate and can be placed every 100-150 metres or so throughout towns. To prevent signals from being dropped, carriers could install thousands of these antenna in a city to form a dense network that acts like a 360 degree relay team, receiving signals from other base stations and sending data to users at any location.

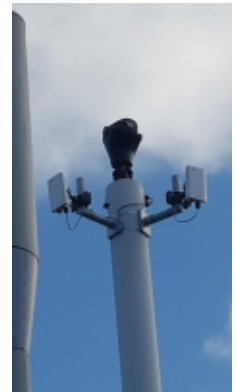
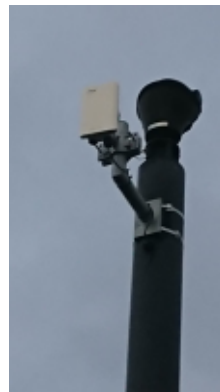
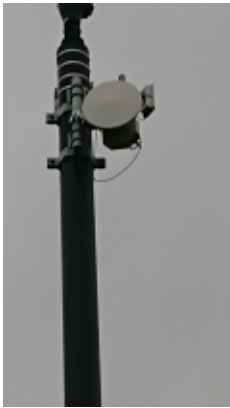
While traditional cell networks have also come to rely on an increasing number of base stations, achieving 5G performance will require an even greater infrastructure. Antennas on small cells can be much smaller than traditional antennas if they are transmitting millimeter waves. This size difference makes it even easier to mount cells on light poles and atop buildings.

This radically different network structure should provide a more targeted and efficient use of the spectrum. Having more stations means the frequencies that one station uses to connect with devices in one area can be reused by another station in a different area to serve another customer.

To enable full 5G coverage in Wirral, this army of thousands of ‘signal repeaters’ or ‘relayers,’ in addition to the main masts and LED street light IoT devices, are needed due to the limited range of the millimeter waves and the volume of their intended use, and means that the government and industry propose to also use the lamp-posts and other street furniture for the rapid deployment of these ‘small cells’. We believe that this deployment is largely in place now. These antenna are bolted to existing traffic lights, street lights, the side of buildings, CCTV poles and bus stops. They are using existing infrastructure to accommodate these new transmitters and receivers.

We are currently in the process of mapping and measuring this particular infrastructure.

These are a couple of examples of small cell antenna in Birkenhead:



<https://www.proxim.com/downloads/Technical-Guides/Tsunami-8000-BS9&BS1-Hardware-Guide.pdf>

<https://www.gov.uk/government/news/street-lamps-and-bus-shelters-to-help-boost-5g-roll-out-in-4-million-trial>

4.4 5G LED Lamp-posts



These are a few examples of the various new LED technology from around Wirral.

The deployment of government policy led LED lamp-posts with ‘smart city’ enabled transmitters, are creating a mesh layer of electro smog penetrating homes and bedrooms and must also be halted. These are loaded with wireless technologies (GPS, Wi-Fi, Bluetooth, Zigbee etc.) intended to facilitate a multitude of IoT smart street applications including but not limited to movement detection, noise detection, pollution detection, energy efficiency monitors & wifi routers, and are intended to support the smart cities agenda being quietly rolled out, as well as providing ‘relaying’ facilities for the 5G millimeter wave signals.

Since 2015 these LED lamp-posts with their radiation emitting smart city technology, have been quietly rolled out across the Wirral under the pretence of being light sensors to ‘save’ energy. In reality they are energy

intensive and produce harmful environmental toxins which we are all unknowingly being subjected to, some just a few metres away from peoples bedrooms. They are frequently on in the day and off at night.

We are already exposed to countless frequencies e.g. sub GHz such as that used in LED lamppost transmitters (936 MHz) and the current ranges used in 2G, 3G & 4G which includes 700 MHz, 800 MHz, 900 MHz, 1800 MHz, 2100 MHz, 2600 MHz and many more.

<https://doczz.net/doc/3214599/leafnut---harvard-technology>

There may have already been un-authorised tests of this technology, one in particular in Gateshead from 2016 onwards, garnered some press coverage with a number of local residents, including children, developing ill health and neurological/behavioral problems followed by the local council doing their best to shut down the debate. A local resident has even taken Gateshead Council to court over the issue, and has subsequently forced the council to remove this potentially dangerous technology from the lamp posts.

<https://www.dailymail.co.uk/health/article-5409921/Residents-enduring-stillbirths-street-lamps.html>

In addition to the harmful undiffused white light produced by the LED itself (which is another subject), these streetlights are now forming an inescapable mesh network of harmful wireless radiation.

Wirral Council and Harvard Engineering, which was dissolved on 31 December 2019, signed a contract in 2015, to use SSE & Urbis Schreder to initially equip approximately 7,500 of Wirrals street lights with the 'Leafnut' system between 24th August 2015 and 31st March 2016. This needs to be examined closely to better understand the capabilities of this technology. We are assuming that as the range of millimeter wave signals is approximately 100-150 metres, that the Leafnut 5G relay device may only need deploying on 1 in every 5 streetlights, which roughly explains the order for 7,500 when there are 37,000 lights in Wirral.

<https://electricalengineeringmagazine.co.uk/leafnut-chosen-for-wirral-street-lighting-upgrade/>

Telecommunications and infrastructure companies, amongst others, must not be allowed further access to street lighting equipment, lamp posts as well as other street furniture including bus stops, manholes and church spires etc. to install 5G small cells/repeaters or other communications circuitry.

Then moving into our homes:

4.5 Wi-Fi

We are now exponentially exposed to Wi-Fi, cellular phones, cell towers, a growing IoT, LED lampposts and countless other wireless and smart devices in our homes, schools and workplaces. These devices operate by emitting frequencies ranging from 800 MHz to 5.8 GHz (800 million to 5.8 billion cycles per second.)

Wi-Fi was first introduced in 1997 and is now installed in the majority of homes, schools, workplaces, shops and leisure facilities. Wi-Fi operates on 2.4 GHz (similar frequency to the microwave oven) and now 5.8 GHz. Most new Wi-Fi units utilize both frequency bands. Newer BT routers also emit a shadow signal for both frequencies to boost connectivity for the BT hotspot facility, ensuring four signals are pumped into homes from the router alone. Homes are now filled with literally dozens of wireless or bluetooth devices emitting the same frequencies including Wi-Fi boosters, phones, i-pads, smart TV's, Sky Q boxes, Alexa's, games consoles, smart watches, smart light bulbs, smart appliances, smart speakers, heating systems, CCTV and smart meters to name a few. Each device emits bursts of pulsed non-ionising radiation every few seconds and does not stop when not in use.

As ubiquitous as Wi-Fi has become, it should not deter populations from pushing for its removal and a restoration of the safer wired connections. This is especially true in schools where children as young as 5 are

being involuntarily subjected to radiation poisoning from powerful commercial routers, capable of connecting up to 50 computers, and with their physiology being such that they are much more seriously affected by this carcinogen. Wi-Fi has been banned in nursery and primary schools and limited in secondary schools in several countries across the world.

Since Wi-Fi's inception, the industries clever campaigning has lulled people into the notion that this technology is completely safe. It is not safe. It could now be very difficult to convince some people to change back to a safer wired connection, foregoing the convenience of a device they can just carry around or use in a coffee shop. There is no excuse for not attempting to reverse this trend with a prominent campaign of public safety. That the packaging on a new phone or a Wi-fi router does not boldly display a warning against close contact between the device and the body for more than a few minutes is staggering. We understand that for insurance purposes the companies must convey this information, so they bury it deep in their small print. The telecom companies are now engaged in selling even more powerful routers to us all. This is another step towards the proposed IoT.



These billboards were photographed in Birkenhead in February 2022.

4.6 Smart Meters and 5G Satellites

Although out of the scope of this report, smart meters are also part of the 'smart city' network and have publicly been supported by members of the council. Smart meters are designed to collect and monitor all electricity use within homes and relay this information to the smart grid. They have been sold as 'safe', 'green', 'energy saving', 'cost saving' and 'convenient' as we enter the 'climate emergency' period. They are anything but. They produce strong bursts of pulsed non-ionising radiation every few seconds whilst collecting and monitoring user data. Again, many people have reported significant negative health effects since their installation. Smart meters are also yet another data collecting device. They will also give the energy supplier remote control potential should they deem the customer is exceeding their allowance as energy use is likely rationed in the coming 'climate emergency.'

Alarmingly, there are also plans to launch thousands of satellites into space to cover the entire globe with 5G, leaving no area of the earth and its electro-magnetic atmosphere untouched. This is also out of the scope of this report, but thousands of new satellites have been approved for deployment and launched as part of the 5G system. They will beam broadband and 5G services to every corner of the earth. This is utterly untested and likely to massively affect the entire planet, weather and climate. In addition, huge amounts of rocket fuel are required, directly contributing to climate change. They also require to be replaced every few years and can fall to earth spreading toxic heavy metals and other pollutants as they do so. This is truly an international emergency, in complete contradiction of the United Nations climate change agenda, and also in breach of numerous international treaties and agreements.

<https://www.cellphonetaskforce.org/wp-content/uploads/2022/01/441449-Low-Earth-Orbit-Satellites.pdf>

4.7 Radiation

All wireless technology emits differing forms of radiation. Radiation is the emission or transmission of energy (waves or particles) through space or a material medium. In other words, radiation from masts is the travelling of energy through a space.

Radiation can occur in many forms; there is radiation from the sun known as ultraviolet radiation; electromagnetic radiation such as radio waves; infrared radiation; gamma radiation; particle radiation such as alpha and beta radiation; gravitational radiation such as gravitational waves, plus more.

Radiation is mainly grouped into two: (i) ionizing radiation, and (ii) non-ionizing radiation. The energy of the radiated particles determines the group in which the particular radiation belongs to.

Ionizing means the breaking of electrons away from an atom. This removal of an electron from an atom requires high energy which is supplied by electromagnetic waves.

Since all masts emit some level of radio frequency radiation, this means they are all somewhat dangerous to our health. This has elicited many research studies to identify the dangers in the electromagnetic waves.

It has been established that, to some extent, the electromagnetic waves from cellular networks including 2G, 3G, and 4G are all detrimental to human health. The advent of the 5G mobile network has now raised more questions as regards how these EMF waves affect our health conditions.

5G masts will affect the radiation levels which make them more dangerous than the previous cell towers. This is because of the significant increase in the frequency and intensity of the radio waves, and the use of microwaves and millimeter waves.

2G uses 0.9 - 1.8 GHz / 3G uses 0.9 - 2.1 GHz / 4G uses 1.8 - 2.6 GHz / 5G has the scope to use 2.6 - 300 GHz. In the range of radio frequency radiation, the much higher frequencies show the most substantial changes in the radiation levels.

In addition to the above, since the 5G network requires more masts and antenna which are to be mounted on traffic lights and CCTV posts, the radiation levels from the radio signals in the electromagnetic spectrum will increase and thereby, the living organisms within the environment of the waves become more exposed to the harmful radiation.

The distance between our physical bodies and the radiation from the masts matters a lot. Even if the radio frequency radiation is not very powered, it is still more dangerous if it comes closer to our body when compared to high-powered radio frequency radiation from long distance.

So, 5G masts have higher data rate, faster response time, and are more applicable especially in the Internet of Things because of these properties. The increase in the radio frequency level and the number of masts needed for full functionalities of the 5G cellular network, mean that the radiation levels will significantly increase, and this calls for huge concerns regarding our health.

4.8 Microwaves

Microwaves are electromagnetic rays with a frequency range of 0.3 GHz - 300 GHz. They are found between the radio waves and the infrared waves in the electromagnetic spectrum. Microwave radiation is the radiating wave movement in which microwave energy travels. You need an aerial on the roof for radio waves, but for microwaves you don't, they would just go straight through your house. And of course if they are going straight through your house, they're also going straight through you.

This type of energy takes a straight line path. Like all electromagnetic waves, they do not require a medium to travel through. They can pass through non-metal materials like plastic and glass, but get reflected off metal surfaces. Microwaves will penetrate buildings, they will go through most substances including concrete &

brick, whereas radio waves won't. Microwaves are absorbed by foods and other materials with high water content, and produce heat. This is the operational principle on which microwave kitchen appliances work. Humans are made up of 60-70% of water.

Whilst broadcasting can employ radio waves a mile or more in width, microwaves range in size from roughly a metre to a tiny fraction of a centimetre. They're seen as harmless in everyday uses like microwaving foods. Their diminutive size also enables tight focusing, as when dish antennas turn disorganized rays into concentrated beams roughly the dimensions of the human head.

Most of our modern-day communication devices, such as Wi-Fi routers, cell phones, masts, wireless devices, and anything "Smart", use low-level microwave frequencies to transmit information between sources. This means that our communication devices are also producers of microwave radiation. This form of microwave radiation is "non-ionizing", and "non-heating", but the science community has found clear indications that it affects the human body in many different ways.

Though some say microwave radiation can't possibly harm human health, literally thousands of studies worldwide have linked it to a myriad of health hazards. These hazards range from melatonin depletion and cellular DNA damage to very serious diseases such as Cancer and Alzheimer's. Scientists have traced the negative impact of microwave radiation to the electromagnetic interaction that occurs within human cells. It has been clearly defined that since human cells function via natural electrical impulses, they become disrupted by the chaotic interference of man-made frequencies. This cellular interference ultimately leads to a breakdown in health, or development of disease.

Although we have known for many years that microwave radiation disrupts human cellular function, there have been ongoing questions when it comes to the exact interaction that takes place. Many of these questions have recently been laid to rest, however, when researcher Dr. Martin Pall, Professor Emeritus of Biochemistry and Medical Sciences at Washington University, was able to demonstrate the exact mechanism by which microwave radiation causes bio-effects and disease. **He determined that frequencies, such as microwave radiation, disrupt the calcium channels and calcium ions within cells.** A calcium channel is a molecule that permits or prevents the passage of the calcium ion from the outside to the inside of a cell. When the channel permits the calcium ion into the cell, that ion stimulates the cell's chemistry to perform such tasks as making proteins, releasing hormones, firing neurons, etc. Virtually every cell in the body uses calcium channels to respond to biological signals. Since calcium ions are electrically charged, both the ions and the channels respond to electromagnetic fields, both natural and man-made. **Dr. Pall discovered that man-made frequencies have the ability to open calcium channels, which causes calcium ions to flood into the cell. The ions are therefore unregulated in amount and they begin sending signals that are not appropriately timed. This causes an increased intracellular calcium level, as well as confusion in cellular response, which ultimately damages human health in various ways.** Dr. Pall noted that these disturbed biological mechanisms can explain the growing number of "unexplained illnesses" such as sudden cardiac death, weakened immune system, and fibromyalgia etc. Likewise, his research has defined how microwave radiation can be associated with things like heart problems, damage to the blood-brain barrier, sleeping problems, cancer, depression, and many other psychiatric and neurological disorders.

4.9 Millimeter Waves

Today's wireless networks have run into a problem: More people and devices are consuming more data than ever before, but it remains crammed on the same bands of the radio-frequency spectrum that mobile providers have always used. That means less bandwidth for everyone, causing slower service and more dropped connections.

One way to get around that problem is to simply transmit signals on a whole new swathe of the spectrum, one that's never been used for mobile service before. That's why providers are experimenting with broadcasting on millimeter waves, which use higher frequencies than the radio waves and microwaves that have long been used for mobile phones.

Millimeter waves are broadcast at certain frequencies between 6 GHz - 300 GHz, compared to the bands below

6 GHz that were used for mobile devices in the past. They are called millimeter waves because they vary in width from 1 to 10mm compared to the microwaves that serve today's smartphones, which measure tens of centimetres up to a metre in width, and in some cases radio waves which are wider still.

Until now, only operators of satellites, radar systems and airport scanners used millimeter waves for real-world applications. Airport scanners and hospital / dental Xray scanners are adorned with danger / skull and bones signs and are limited to a minute or two's use, yet the millimeter signals proposed for 5G could mean 24 hour blanket emissions. Now, some cellular providers have begun to use them to send data between stationary points, such as two base stations. But using millimeter waves to connect mobile users with a nearby base station is an entirely new approach.

The one major drawback to millimeter waves is that they can't easily travel through buildings or obstacles and they can be absorbed by foliage and rain.

It is extraordinary that millimeter wave technology intended for use amongst humans has not been extensively safety tested.

In addition to broadcasting over millimeter waves, 5G base stations will also need many more antennas than the base stations of today's cellular networks, to take advantage of another new technology: massive MIMO.

4.10 Massive MIMO

Today's 4G base stations have a dozen ports for antennas that handle all cellular traffic: eight for transmitters and four for receivers. But 5G base stations can support about a hundred ports, which means many more antennas can fit on a single array. That capability means a base station could send and receive signals from many more users at once, massively increasing the capacity of mobile networks.

This technology is called massive MIMO. It all starts with MIMO, which stands for multiple-input multiple-output. MIMO describes wireless systems that use two or more transmitters and receivers to send and receive more data at once. Massive MIMO takes this concept to a new level by featuring dozens of antennas on a single array.

So far, massive MIMO has only been tested in labs and a few field trials. In early tests, it has set new records for spectrum efficiency, which is a measure of how many bits of data can be transmitted to a certain number of users per second.

Massive MIMO looks very promising for the future of 5G. However, installing so many more antennas to handle the increased cellular traffic also causes more interference if those signals cross. That's why 5G stations must incorporate beamforming.

4.11 Beamforming

Beamforming is a traffic-signalling system for cellular base stations that identifies the most efficient data-delivery route to a particular user, and it reduces interference for nearby users in the process. Depending on the situation and the technology, there are several ways for 5G networks to implement it.

Beamforming can help massive MIMO arrays make more efficient use of the spectrum around them. The primary challenge for massive MIMO is to reduce interference while transmitting more information from many more antennas at once. At massive MIMO base stations, signal-processing algorithms plot the best transmission route through the air to each user. Then they can send individual data packets in many different directions, bouncing them off buildings and other objects in a precisely coordinated pattern. By choreographing the packets' movements and arrival time, beamforming allows many users and antennas on a massive MIMO array to exchange much more information at once.

For millimeter waves, beamforming is primarily used to address a different set of problems: Cellular signals are easily blocked by objects and tend to weaken over long distances. In this case, beamforming can help by

focusing a signal in a concentrated beam that points only in the direction of a user, rather than broadcasting in many directions at once. This approach can strengthen the signal's chances of arriving intact and reduce interference for everyone else. Even this industry description talks of focussing a 'concentrated beam' in the direction of a user.

4.12 Phased Arrays

The single most important fact about 5G that nobody is talking about is called “Phased Array.” It will totally change the way masts and mobile phones are constructed and will transform the blanket of radiation which has enveloped our world for two decades into a million powerful beams whizzing by us at all times.

5G antennas will be phased arrays. The antennas in each array will work together as a unit to focus all their energy into a narrow, steerable directed beam.

5G is going to be at a much higher frequency range, which means the antennas are going to be much smaller, some small enough to fit inside a smartphone, they are going to work together in a phased array, and they are going to concentrate their energy in narrow, steerable high power beams. The arrays are going to track each other, so that wherever you are, a beam from your smartphone is going to be aimed directly at the base station tower, and a beam from the base station is going to be aimed directly at you. If you walk between someone's phone and the base station, both beams will go right through your body. The beam from the tower will hit you even if you are in the general vicinity of someone who is on a smart phone. And if you are in a crowd, multiple beams will overlap and be unavoidable.

At present, smartphones emit a maximum of about two watts, and usually operate at a power of less than a watt. That will still be true of 5G phones, however inside a 5G phone there may be 8 tiny arrays of 16 tiny antennas each, all working together to track the nearest mast and aim a narrowly focused beam at it. The FCC has recently adopted rules allowing the effective power of those beams to be as much as 20 watts. Now if a handheld smartphone sent a 20-watt beam through your body, it would far exceed the exposure limit set by the FCC. What the FCC is counting on is that there is going to be a metal shield between the display side of a 5G phone and the side with all the circuitry and antennas. That shield will be there to protect the circuitry from electronic interference that would otherwise be caused by the display and make the phone useless. But it will also function to keep most of the radiation from travelling directly into your head or body, and therefore the FCC is allowing 5G phones to come to market that will have an effective radiated power that is ten times as high as for 4G phones. What this will do to the user's hands, the FCC does not say. And who is going to make sure that when you stick a phone in your pocket, the correct side is facing your body? And who is going to protect all the bystanders from radiation that is coming in *their* direction that is ten times as strong as it used to be ?

The situation with masts is, if anything, worse. So far, in the United States, the FCC has approved bands of frequencies around 24 GHz, 28 GHz, 38 GHz, 39 GHz, and 48 GHz for use in 5G stations, and is proposing to add 32 GHz, 42 GHz, 50 GHz, 71-76 GHz, 81-86 GHz, and above 95 GHz to the soup. These have tiny wavelengths and require tiny antennas. At 50 GHz, an array of 1,024 antennas will measure only 4 inches square. And the maximum radiated power per array will probably not be that large—tens or hundreds of watts. But arrays containing such large numbers of antennas will be able to channel the energy into highly focused beams, and the *effective* radiated power will be enormous. The rules adopted by the FCC allow a 5G base station operating in the millimeter range to emit an effective radiated power of up to 30,000 watts per 100 MHz of spectrum. And when you consider that some of the frequency bands the FCC is making available will allow telecom companies to buy up to 3 GHz of continuous spectrum at auction, they will legally be allowed to emit an effective radiated power of up to 900,000 watts if they own that much spectrum. The base stations emitting power like that will be located on the sidewalk. They will be small rectangular structures mounted on top of utility poles.

The reason the companies want so much power is because millimeter waves are easily blocked by objects and walls and require tremendous power to penetrate inside buildings and communicate with all the devices that we own that are going to part of the Internet of Things. The reason such tiny wavelengths are required is because of

the need for an enormous amount of bandwidth - a hundred times as much bandwidth as we formerly used, in order to have smart homes, smart businesses, smart cars, and smart cities, i.e. in order to connect so many of our possessions, big and small, to the internet, and make them do everything we want them to do as fast as we want them to do it. The higher the frequency, the greater the bandwidth—but the smaller the waves. Base stations have to be very close together - 100 metres apart in cities, and they have to blast out their signals in order to get them inside homes and buildings. And the only way to do this economically is with phased arrays and focused beams that are aimed directly at their targets. What happens to birds that fly through the beams, the FCC does not say. What happens to workers who climb utility poles ? A 30,000-watt beam will cook an egg, or an eye, at a distance of a few feet.

And the power from a base station will be distributed among as many devices as are connected at the same time. When a lot of people are using their phones simultaneously, everyone's phone will slow down but also the amount of radiation in each beam will be less. When you are the only person using your phone—for example, late at night—your data speed will be blisteringly fast but most of the radiation from the transmitter will be aimed at you.

Another important fact about radiation from phased array antennas is this: it penetrates much deeper into the human body than previously thought and the assumptions that the FCC's exposure limits are based on do not apply. This was brought to everyone's attention by Dr. Richard Albanese of Brooks Air Force Base and was reported on in Microwave News in 2002. When an ordinary electromagnetic field enters the body, it causes charges to move and currents to flow. But when extremely short electromagnetic pulses enter the body, something else happens: the moving charges themselves become little antennas that re-radiate the electromagnetic field and send it deeper into the body. These re-radiated waves are called 'Brillouin precursors'. They become significant when either the power or the phase of the waves changes rapidly enough. 5G will probably satisfy both requirements. This means that the reassurance we are being given, that these millimeter waves are too short to penetrate far into the body is simply not true.

4.13 Active Denial System

The Active Denial System (ADS) is a directed-energy non-lethal weapon system designed and developed by the US military. The Air Force Research Laboratory (AFRL) at Kirtland Air Force Base in Albuquerque is where ADS technology was first developed.

ADS is also known as a heat ray or pain ray. It is primarily designed for perimeter security and crowd control. It consists of a gyrotron, which generates and focuses a high-energy millimeter-wave radio frequency beam (a type of electromagnetic radiation) onto a target to provide a very hot, skin surface-burning sensation.

These waves travel at the speed of light (since they're part of the electromagnetic spectrum). When the focused high-energy beam strikes the target (i.e., human), it interacts with the tiny water molecules (or moisture) present on the surface of the skin and excites them. This interaction produces an unnerving, but non-lethal sensation of intense heat. This makes the person who is exposed very uneasy and uncomfortable. Exposure to the millimeter beam triggers a natural response to flee from the site and escape the burning sensation.

Although the working principle of the ADS is similar to a microwave, it's actually significantly different from it. Microwaves operate at approximately a 2.5 GHz frequency. This translates into a wavelength of 4.7 inches. ADS, on the other hand, operates at 95 GHz, which means that its wavelength is about 0.015 inches. This is tantamount to the thickness of a few sheets of paper. As millimeter waves are very short in their wavelength, they only penetrate the top layer of the skin. Microwaves, on the other hand, would be much more dangerous, and even fatal, as they can penetrate 30x deeper into the body, inflicting serious harm.

95 GHz millimeter waves emitted by ADS are non-ionizing, i.e., these energy waves do not possess enough photonic energy to cause disruptions at the cellular level. They can penetrate only up to 0.4 millimeters of skin depth, but the energy is high enough to elevate the skin's temperature. The heating sensation one gets upon being exposed to millimeter waves is intense, but it ends as soon as the exposure to the beam ends. That's the whole purpose of ADS. Expose the beam to the enemy so that they retreat to escape the burning sensation.

The Australian police recently used a LRAD (long range acoustic device) active denial weapon on a crowd of protesters at the parliament house in Canberra. This is a very basic example of some of the tools available.

<https://yournews.com/2022/02/19/2302302/report-microwave-energy-weapons-deployed-against-canberra-freedom-convoy/>

4.14 Airlines with 5G Concerns

Boeing and Airbus both recently signalled to the US government that the 5G rollout could dangerously affect their ability to use their planes' radio altimeters – the device that tells the pilot the altitude of the aircraft and helps the pilots to guide the plane in low visibility. Without the altimeter & in poor visibility, landing the craft would become dangerous if not impossible, should the planned activation of 5G go ahead, according to the two airlines.

In a letter to the US government, top executives at Boeing and Airbus warned that 5G technology could have *"an enormous negative impact on the aviation industry."* Concerns have previously been raised that C-Band spectrum 5G wireless could interfere with aircraft electronics. US telecoms giants AT&T and Verizon were due to deploy 5G services on 5 January 2022. *"5G interference could adversely affect the ability of aircraft to safely operate,"* said the bosses of Boeing and Airbus Americas, Dave Calhoun and Jeffrey Knittel, in a joint letter to US Transportation Secretary Pete Buttigieg. The aviation industry and the FAA have raised concerns about potential interference of 5G with sensitive aircraft equipment like radio altitude meters.

"Airbus and Boeing have been working with other aviation industry stakeholders in the US to understand potential 5G interference with radio altimeters," Airbus said in a statement.

The decision to delay the switch on was initially rejected by the telecommunications industry, but was eventually granted the day before the deadline. The Federal Aviation Administration (FAA) has released a list of US airports that will have 5G buffer zones around them following concerns that expansion of the network could interfere with aircraft safety systems.

Two of the country's largest telecom firms, AT&T and Verizon, are struggling to roll out their "game changing" C-band 5G networks as they negotiate with government officials. The original date set for December had previously been postponed until 5 January 2022, and then for another two weeks. Now the FAA says the carriers have agreed to keep their 5G towers offline around dozens of airports for at least another six months. The US wireless industry group CTIA has said 5G is safe and accused the aviation industry of fearmongering and distorting facts.

Major cities like Los Angeles, Las Vegas, New York City, Miami, and Dallas will include airports with the so-called buffer zones. Some airports have not been included either because they already have a natural buffer zone, or there are no plans to deploy the 5G tech in the immediate vicinity such as airports in Atlanta, Georgia and Denver, Colorado.

<https://www.rt.com/news/545106-verizon-att-delay-5g/>

<https://www.theguardian.com/science/2021/dec/21/airbus-and-boeing-express-concerns-over-5g-interference-in-us>

4.15 Diamond Princess with 5G and its Covid 19 Deaths

On 5 February 2020, the luxury cruise liner *Diamond Princess* was boarded at port Yokohama in Tokyo Bay by Japanese health officials. Those health officials pronounced that 10 persons on board were diagnosed as having coronavirus, later known as COVID-19. The ship was ordered quarantined for 14 days. Nobody could leave the ship during the quarantine period. Within 3 days another 125 passengers were diagnosed with having COVID-19. By 13 February, 8 days later, a total of 218 people were diagnosed with having COVID-19.

A little known fact is that the *Diamond Princess* was sporting some new high tech 5G towers. An earlier news press release explained that:

“Princess Cruises has announced a new dimension in its connectivity partnership with SES and will become the first global cruise ship fleet with early access to SES’s O3b mPOWER network augmenting the Princess Medallion Class experience as it scales across the fleet.”

Cruise Industry News, 3 February 2020.

Is there a connection between the newly installed 5G network on the ship and the passengers being struck ill with coronavirus? It should be noted that only the *Princess* cruise line that had installed the 5G had outbreaks of COVID-19. In March 2020, the *Grand Princess* had outbreaks of COVID-19 before docking in San Francisco. The *Ruby Princess* was reported to have had an outbreak of COVID-19 involving 600 passengers prior to docking on 19 March 2020 at Sydney, Australia. All of those ships are Medallion Class ships with the new 5G tower connectivity from SES’s O3b mPOWER.

‘Together with key stakeholders and technology partners, SES Networks is advancing satellite integration into 5G through standardization, technology development and demonstrations.’

We’ve also invested in the revolutionary O3b mPOWER next-generation satellite system, which will augment our existing MEO assets with terabit-scale capabilities.’

<https://www.axios.com/coronavirus-diamond-princess-cruise-ship-japan-efc8ecc0-cbef-4527-bf68-2800e29431c7.html>

<https://www.forbes.com/sites/victoriaforster/2020/02/20/the-diamond-princess-has-become-a-floating-viral-incubator-what-can-scientists-learn-from-the--coronavirus-stricken-cruise-ship/>

4.16 Wuhan to establish Hubei’s first 5G demonstration zone

Source: hubei.gov.cn 05/09/2019 17:09:12

Wuhan, capital of central China's Hubei Province, will establish the province’s first 5G demonstration zone in the Central Business District according to a 5G cooperation agreement signed between China Mobile and local authorities on 3 September 2019.

According to the agreement, China Mobile will take advantage of technological advantages of large-scale network construction and product development to build a “dual Gigabit infrastructure network”, so as to promote the deep integration of 5G technology and traditional industries.

China Mobile has teamed up with local authorities to pilot 5G services in Wuhan, witnessing central China’s first 5G smart street-lamp built in the Jiangnan District. **The 5G coverage for commercial use in Jiangnan is expected to be completed in October, switching on 1 November 2019.**

http://en.hubei.gov.cn/news/newslist/201909/t20190905_1410979.shtml

<https://www.zdnet.com/article/china-officially-launches-5g-networks-on-november-1/>

4.17 Wuhan gets 1st 5G smart street-lamp

Source: *Xinhua* 15/5/2019 16:05:46

Authorities in central China's Hubei Province have built the first 5G smart street-lamp in the provincial capital Wuhan.

Appearing to be a normal street-lamp, the equipment is installed with a camera, a liquid crystal display and a box for light bulbs. The street-lamp not only hosts a radio base station, but also a number of 5G smart functions, which helps save resources and contributes to building a smart city, according to Xu Hua, who is in charge of 5G-related programs under China Mobile in Hubei.

More such street-lamps mean that locals will be able to experience high-definition video chats, high definition video transfer and smooth augmented reality.

China Mobile teamed up with local authorities to pilot 5G services in Wuhan's Jiangnan District in January. The 5G coverage for commercial use in Jiangnan is expected to be completed in October.

http://en.hubei.gov.cn/news/newslst/201905/t20190515_1393917.shtml

4.18 Expert Report on Fifth Generation (5G) Directed Energy Radiation Emissions.

Mark Steele 2022.

Mark Steele, a British weapons research scientist, engineer with a materials science background has recently written an explosive report about the effect that 5G radiation emissions have on those who have been vaccinated against covid 19. The report covers 5G urban radar, ionizing radiation and critical infrastructure risks. It talks about Vaccination metamaterials & nanoparticle contamination magnetic fields and Radiation-induced coronavirus Covid-19 symptoms. It goes onto feature Augmented humans increasing mortality in 5G radiation fields.

5G, unlike all of the other generations of telecommunications, is technically identified as an urban radar directed energy in air emission, which requires the antenna to be designed to cause the focused energy in air for the high-speed compression of data to and from antennas designed to send and receive focused energy through a theoretical collimated and coherent signal. The beam forming wave in the main lobe emission breaches the International Commission on Non-Ionizing Radiation Protection (ICNIRP) guideline of 61V for a maximum exposure of 6 minutes. This ICNIRP guideline is contrary to the Council of Europe (COE) 1815 Resolution and to the European 2016 guideline, which confirm the published peer-reviewed science that

anything over 600 mV/m should be limited to short-term exposure, and long-term exposure should be no more than 200 mV/m. This is orders of magnitude lower than the 6-minute, 61,000 mV ICNIRP guideline, which is a biological cooking value. ICNIRP is widely acknowledged to be a “captured agency”, as confirmed in the Italian courts. **The sweeping movement of the beam wave at over 13.6V causes the positive charging of air, which is noxious to all biological life at significant distances from the antenna emission to the target acquisition zone, such is the capability of the 5G hard and software and is the very reason this equipment is, and has been, used extensively on the battlefield as scanning environment radar and Directed Energy Weapons (DEWs) for the purpose of disrupting and disabling enemy hardware, as well as biological assets, i.e. humans.** Typically, the 5G antenna design uses a larger power input and directed output to deliver focused, high-power data compression signals measured in watts or electron volts. The aviation industry, including Boeing and Airbus, have recently raised concerns over 5G due to its capability to endanger passenger aircraft that do not have the military mitigation technologies in a civilian setting to protect their pilots or aeroplane flight control systems against directed energy emissions.

The telecoms industry and other regulatory bodies have continually denied the real purpose, and existence of the radiation dangers posed by the deployment of 5G technologies; they have actively misled the public by issuing demonstrably false press releases through local and national media, as well as by making false statements in courts in failed attempts to discredit experts, including myself, even though they had been advised by their own intelligence agencies that the experimental, uninsurable-for-harm technology was and is extremely dangerous to the security of the state.

“Backhaul” in the context of 5G is the term used for the technological advance that enables data to be interrogated and uplifted from multiple devices and environments simultaneously; in other words spying across the whole area, leaving no chance of any privacy. The capability of interrogation and digitization of the intelligence gathered breaches a number of human rights laws.

Spectrum dominance of the 5G network from sub 3 GHz to 300 GHz poses a real risk of bodily harm from higher photon energy value frequencies that are coherent radiation emissions, the impact of which is currently unknown since they are untested and not proven to be safe, as well as uninsurable, with levels of radiation emissions in excess of anything imagined by earlier technologists. ICNIRP guideline radiation values apply only to single antenna device emitters, and do not take into account the massive increase and multiplication of radiation emission devices proposed across all cities and towns for the 5G network, which is intended to interconnect everything simultaneously using highly complex, biologically toxic, and in particular, modulated microwave radiation. 5G deployment is under way by governments across the world in all cities and towns without any of the obligatory prior environmental impact analysis or public insurance for instruments of harm, rendering the whole network deployment an illegal and unlawful act by authorities acting ultra vires in allowing known biologically toxic ionizing and non-ionizing radiation emissions unfettered access to the environment. Telecoms companies generally self-certify having met (obsolete) ICNIRP guidelines, which allows them to breach those guidelines without sanction as there are no regulatory bodies making independent assessments of adherence to the ICNIRP guidelines.

These are the same ICNIRP guidelines that have been shown to cause ill health and cancers in the general population in proximity to the existing 4G networks.

A further troubling factor is that the telecommunications industry responsible for the deployment have confirmed that they, the industry, have not carried out any scientific research and therefore have no current published scientific research data on the actual impact of 5G networks on the environment. Independent research studies on the subject refute industry and government propaganda about the safety of the 5G network. Government agencies who are tasked with protecting the population from the confirmed cancer-causing properties of non-ionizing and ionizing radiation have failed to provide a regulatory framework of safety standards or guidelines to protect the environment, thereby exposing an unsuspecting public to levels of radiation that are harmful and life-threatening.

<https://forlifeonearth.weebly.com/mark-steele-expert-report-on-5g-emissions-in-context-of-nanometal-contaminated-vaccines.html>

So, as far as speed, latency, and connectivity go, 5G will have some huge advantages, but at what price? Although 5G will allow the facilitation of high network speeds, they will also be exposing our bodies and the environment to rapidly increasing levels of harmful non-ionising radiation.

5G is being sold as 'safe', 'smart', 'green' and 'environmentally friendly' with environmental monitoring capabilities. It is anything but safe, smart, green and environmentally friendly. It is a dangerous, invisible and insidious pollutant that also uses vast amounts of energy at a time when climate change is being promoted.

The recent drive for data privacy highlighted by the GDPR issue will be rendered somewhat irrelevant should this 5G agenda proliferate as data protection disappears with nearly everyone using wireless technology for private matters. That data is open and vulnerable to hacking now despite industry claims of protection. Once 5G and its powerful scanners pick up your private information the state will know more and more about you.

5.0 PROOF OF HARM FROM RF RADIATION

In stark contrast to the denial of harm from non-ionising wireless radiation within ICNIRP guidelines, there are thousands of peer reviewed studies that demonstrate biological harm at levels thousands and even millions of times lower than those allowed under the guidelines.

The following is a small part of the list of symptoms and conditions that have been shown, according to studies and personal testimonies, to be caused by or made worse by exposure to existing levels of wireless radiation that we already have in our homes, schools, streets and workplaces today and before 5G is operating at capacity:-

Cancer growth, [organ damage](#), neurological damage, [cardiac problems](#), DNA single and double strand breaks, [oxidative damage](#), disruption of cell metabolism, [increased blood brain barrier permeability](#), melatonin reduction, [disruption to brain glucose metabolism](#), generation of stress proteins, [cell damage](#), change in pulse rate, [dizziness](#), nausea, [headaches](#), increase of body temperature, [nervousness](#), irritability, [mental confusion](#), loss of appetite, [depression](#), insomnia, [drowsiness](#), perspiration, [fatigue](#), weakness, [numbness and tingling](#), secretion of mucus, [muscle and joint pains](#), painful menstruation, [muscle spasms and cramps](#), backache, [heart palpitations](#), chest pain, [diarrhea](#), constipation, [nosebleeds](#), haemorrhages, [itching](#), tremors, [seizures](#), fever, [electro-sensitivity](#), shortness of breath, [coughing](#), wheezing, [asthma attacks](#), eye pain, [ringing in the ears](#), metallic taste, [memory loss](#), brain fog, [altered blood cell counts](#), increased chromosome aberrations, [Meniere's disease](#), lowered fertility, [endocrine hormonal effects](#), increased intracellular calcium, leukemia, [lymphoma](#), [respiratory infections](#), [inflamed sinuses](#) plus many more.

Everyone in the world suffers, in varying degrees, from Electro Hyper Sensitivity (EHS), an English phrase coined in 1932, by a German doctor Erwin Schliephake, concerning patients suffering microwave syndrome symptoms. Dr Erica Mallery-Blythe, a former doctor, said:

'Everyone has the potential to become electro hyper sensitive. Every cell in our body, in our brain, or nervous system is dependent on electrical signals. But some people have that extra sensitivity, and though they may not know it, it is causing their asthma, flu like symptoms or insomnia. Many people may be electro sensitive and not realise it. The only way to alleviate symptoms is to avoid the electro magnetic waves they feel cause them. Don't keep electronic devices in the room you sleep in, and switch off as many devices as you can in the house.'

Robert O'Becker, a noted academic & researcher, who studied wireless Radio Frequency Radiation (RFR) exposure in Salamanders concluded the organ damage to be *'gradual, subtle and cumulative.'*

In 2011 the World Health Organization (WHO) IARC (International Agency for Research On Cancer) classified Radio Frequency Radiation as a Group 2B 'possible carcinogen', and there is pressure building from within the genuine scientific circles to upgrade the classification to either a Group 2A 'probable carcinogen' or even a Group 1 'carcinogenic to humans.'

https://www.iarc.who.int/wp-content/uploads/2018/07/pr208_E.pdf

There are thousands of peer-reviewed studies to date that clearly demonstrate biological harm at sub thermal levels (some referenced within this document plus many others). These have all been consistently dismissed as unsubstantiated and not relevant by ICNIRP. These same ICNIRP thermal guidelines are now being used as the basis to claim that the 5G roll out is unlikely to cause harm if the devices are within these guidelines.

To date, NO safety studies whatsoever have been conducted on the effects of 5G technology on people and the environment. (First test conducted February 2022 in chapter 5.16.)

This was confirmed in a 'US Senate Commerce Science and Transportation Committee Hearing' on the 'Future of 5G Wireless Technology' on 6 Feb 2019, where Senator Richard Blumenthal asked two executives from

Verizon and AT&T (US telecom companies) how much money had been spent on independent safety research for 5G. The response:

'There are no industry backed studies to my knowledge right now'

Nothing has been spent on safety testing, indeed their answers seem to startle Senator Blumenthal, who replied:

'So there really is no research ongoing, we're kinda flying blind here, so far as health and safety is concerned.'

<https://www.youtube.com/watch?v=ekNC0J3xx1w>

Below is just a small sample of studies showing negative health effects at sub thermal levels massively lower than ICNIRP guidelines.

Please see the appendix for further relevant references.

An important point to remember is that these studies have all been conducted on the effects of wireless radiation at pre 5G levels. Once 5G becomes fully operational, these frequencies and power densities are going to rise exponentially in order to support the Smart Cities, Internet of Things (IoT), Internet of Bodies (IoB) and all the other different technologies which governments and corporations are queuing up to exploit.

Some 5G technologies also use shorter wavelengths (millimeter waves). This means that there will need to be a huge increase in the numbers of masts, small cells and repeaters around us in order to relay these powerful signals which cannot travel as far as the previous generations of signals.

This first study is one that we, ourselves, recently compiled and therefore has no link.

5.1 Wirral Health 2021.

We informally surveyed 100 Wirral residents:-

50 residents who live within 200 metres of a mast &
50 residents who live further than 200 metres from a mast.

We identified ourselves and stated we were compiling a health study in the area and simply asked residents if they had any health issues that concerned them. We noted their replies. We then asked them if they were aware of their proximity to the nearby mast / cell tower. We then discussed the possible effects of this radiation.

The 50 people who lived within 200 metres complained of:-

Heart attacks x 8, regular headaches x 31, inability to concentrate x 29, problems sleeping x 33, cancer x 8 (1 lady had 2 cancers) intense menstrual pain x 9, depression x 12, stomach problems x 23, diarrhea x 12, heart pains x 16, pins, needles and numbness x 17, muzzy head x 11, inflamed itchy skin x 8, one father said his 2 kids developed eczema since they moved, reported no problems x 6, Some people listed more than one issue.

The 50 people who lived further than 200 metres away complained of:-

Regular headaches x 12, sleeping problems x 17, no energy x 11, constipated x 5, menstrual problems x 11, tummy problems x 21, glaucoma x 1, brain fog x 9, reported no symptoms x 20. Some people listed more than one issue.

The age range of the survey was 18 to 83. The majority of those interviewed did not wish to divulge their identity. From the study results, it seems that those living closer to the masts have more health problems than those living further away, or at least seem more aware of their health issues. Whilst the results of the survey are not scientific and their health concerns could be attributed to many factors, including Wi-Fi, and could also have started before their exposure to the masts began, what we discovered is most definitely a cause for concern.

5.2 The Bio Initiative Report 2012.

The Bio-Initiative Report states that many biological effects are clearly established and occur at very low levels of exposure to electromagnetic fields and radiofrequency radiation from just minutes of exposure to mobile phone masts, Wi-Fi, and wireless utility ‘smart’ meters. It is one of the most authoritative safety studies done on this subject. This is a must read for anyone genuinely interested in public safety, as it meticulously covers all harm occurring from differing levels of exposure to this established carcinogen.

The report was prepared by 29 authors from ten countries, 10 holding medical degrees, 21 PhD’s, and three MsC’s, MA’s or MPH’s. Among the authors are three former presidents and five full members of the Bio-Electro Magnetics Society. One distinguished author is the Chair of the Russian National Committee on Non-Ionizing Radiation. Another is a Senior Advisor to the European Environmental Agency. Each author is responsible for his or her own chapter.

The great strength of the 1500 page Bio-Initiative Report is that it has been studied independently of the governments, existing bodies and industry bias that have desperately clung to old ‘thermal safety’ standards. Precisely because of this, the Bio-Initiative Report presents a solid scientific and public health policy assessment that is evidence-based.

It is the exposure limits recommended by this study, and not the industry compromised ICNIRP limits, that we have chosen to observe in our report on Wirral’s 5G infrastructure in chapter 10.

<https://bioinitiative.org/>

<https://bioinitiative.org/conclusions/>

5.3 The NTP Study 2018.

Concluding 2018, The National Toxicology Program (NTP) conducted a toxicology study using rats and mice to help clarify potential health hazards, including cancer risk, from exposure to Radio Frequency Radiation used in 2G, 3G and 4G cellphones, which operate within a range of frequencies from about 700 - 2700 MHz.

The \$28 million study, designed to test the basis for Federal safety limits, took more than 10 years to complete and is one of the most comprehensive assessments, to date, of health effects in animals exposed to Radio Frequency Radiation.

It found “clear evidence” of cancer, heart damage and DNA damage. The heart and brain cancers found in the NTP rats were the same cell type as tumours that researchers have found to have increased in humans who have used cell phones for over 10 years.

ICNIRP responded to the release of both the NTP study and the RI study by undermining their legitimacy; their response is discussed in chapter 7.

<https://ntp.niehs.nih.gov/whatwestudy/topics/cellphones/index.html>

5.4 The Ramazzini Study 2018.

The 2018 Ramazzini Institute (RI) Study on Base Station RF radiation was another large scale rat study that also found increases in the same heart cancers as the NTP study found, yet the Ramazzini rats were exposed to much lower levels of RF than the NTP rats.

The RI performed a life-span carcinogenic study on 2448 Sprague-Dawley rats to evaluate the biological effects of long term exposure to legally permitted Radio Frequency Radiation (RFR) of the frequency band 1.8 GHz generated by the Global System of Mobile Communications antenna of the mobile phone base stations. This is another of the largest long-term studies ever performed in rats on the health effects of RFR.

This well respected institute in Italy studied how frequent exposure to RFR at levels consistent with legal cell-tower radiation affected these rats. They reported an increase in the incidence of tumours of the brain and heart in the RFR exposed Sprague-Dawley rats. These tumours are of the same histotype of those observed in some epidemiological studies on human cell phone users.

<https://pubmed.ncbi.nlm.nih.gov/29530389/>

The Environmental Health Trust, a respected think-tank and non-profit organisation commented:

‘The Ramazzini Study exposed 2448 Sprague-Dawley rats, from pre-natal life until their natural death, to “environmental” cell tower radiation for 19 hours per day (1.8 GHz GSM radio frequency radiation (RFR) of 5, 25 and 50 V/m). RI exposures mimicked base station emissions like those from cell tower antennas, and exposure levels were far less than those used in the NTP studies of cell phone radiation.’

Dr. Ronald Melnick Ph.D. formerly the Senior NIH toxicologist who led the design of the NTP study on cell phone radiation and is now a Senior Science Advisor to the same Environmental Health Trust (EHT) explained:

‘All of the exposures used in the Ramazzini Study were below the United States FCC limits. These are permissible exposures according to the FCC. In other words, a person can legally be exposed to this level of radiation. Yet cancers occurred in these animals at these legally permitted levels. The Ramazzini findings are consistent with the NTP study demonstrating these effects are a reproducible finding, governments need to strengthen regulations to protect the public from these harmful non-thermal exposures.’

Editor in Chief of Environmental Research Jose Domingo PhD, Professor of Toxicology, School of Medicine at Reus University, Catalonia, Spain stated:

‘This important book from one of the most acclaimed institutions of its kind in the world provides a major new addition to the technical literature indicating strong reasons for concern about electromagnetic radiation from base stations or cell towers.’

Lennart Hardell MD, PhD, physician-epidemiologist with the Department of Oncology, University Hospital, Örebro, Sweden, who has published extensively on environmental causes of cancer including Agent Orange, pesticides and cell phone radio frequency radiation stated:

‘The US NTP results combined now with the Ramazzini study, reinforce human studies from our team and others providing clear evidence that RF radiation causes acoustic neuroma (vestibular schwannoma) and gliomas, and should be classified carcinogenic to humans.’

5.5 Wi-Fi Blood Study.

Lena Pu 2019.

To study Wi-Fi damage, scientist and researcher Lena Pu conducted a live blood study on a healthy primary school teacher in California. She took the teachers blood at 8am and 3pm on a school day, where the teacher was teaching within proximity of the powerful school Wi-Fi router. To use as a control, she then took the teachers blood at the same times but on a non school day where she had no close exposure to Wi-Fi, as the teacher had a wired connection at home.

What she found was staggering. The non school day results both in morning and afternoon showed reasonably healthy blood with separated round membranes. The blood at 8am in school was also normal and healthy. **The blood at 3pm after 6 hours exposure to Wi-Fi looked incredible.** It was very thick and coagulated to the degree that the microscope slides wouldn't sit together properly. The blood was dark brown, not red. It was '*pancaking*' and showed '*rouleaux stacking*' and '*coagulation cascades*'. This means the cells have limited exits for expelling their toxins, causing sickness. **Lena Pu called it 'microwave weaponry assault'.**

The video clip shows her whole 70 minute presentation which includes the slides of the blood study after 31 mins:

<https://5g-emf.com/5g-health-risks-surveillance-and-bioweaponry-lena-pu-sept-2019/>

5.6 Impact on the Nervous System of Electromagnetic Fields.

Allan Frey, Cornell University Study 1960-75.

In 1960, neuroscientist Allan Frey, then with Cornell University's General Electric Advanced Electronics Centre, became curious about the impact on the nervous system of electromagnetic fields moving at the speed of light. Long before cell phones were commercialized, his findings would eventually prove that radio frequency radiation has a measurable effect on the brain. Attempts were made by the powers-that-be to suppress his work even then.

Among other key results, **Frey determined that the carrier wave of 1,900 megahertz (1.9 GHz), precisely the same wavelength used by many cell phones today, had significant biological effects.**

He injected a fluorescent dye into the blood stream of a mouse. The entire body and all of the organs fluoresced except for the brain, which remained pink-grey. Research in the 1920's had shown why: The brain is protected from taking in poisons or contaminants that get into the bloodstream due to a barrier appropriately known as the **"blood-brain barrier."**

Frey then found something interesting. **He showed that weak radio frequency signals, just like those from today's cell phones, opened up this normally closed barrier.** Frey first injected the dye into the bloodstream of rats and then exposed them to very weak pulsed microwave signals. Within a few minutes, the injected rats' brains began to fluoresce, signaling that the blood-brain barrier had been breached. Frey's studies were reported in the Annals of the New York Academy of Sciences in 1975. Soon after two other labs, using other blood-brain-barrier study techniques, showed similar effects of radio frequency radiation.

The military and industry did not want to accept/admit that such radiation could have any biological impact. For example, several "critiques" of the effect that Frey had discovered completely ignored much relevant information. One group claimed to have repeated his team's rat studies and said they found nothing. However, instead of injecting the dye into the femoral vein so it would go directly to the heart and into the brain in seconds, as Frey had, they injected it into the abdomen. They sprayed it onto the intestines. Within five minutes they killed the animals and looked at the brain. They reported that they found no evidence that the dye had gone

into the brain. There have been many studies confirming and extending Frey's work since then.

In later years, Frey noted the intensity of pressure during the Cold War to stay away from studies that suggested that low-intensity radio frequency radiation had biological impacts of any kind. More than three decades later, recalling attempts to discredit his work, Frey has said:

"What happened then was a naked use of power to try to discredit what had been basic scientific work because it did not comport with what some people in the military and industry wanted to hear."

Today's researchers are still fighting the battle Frey waged in the 1970s

<https://www.cellphonetaskforce.org/the-work-of-allan-h-frey/>

5.7 US Naval Medical Research Institute Studies (inc USSR studies) 1972.

There are more than 2200 references on the biological responses to radio frequency and microwave radiation, published up to June 1971, included in the studies.

This US Navy report documents the connection of 122 biological effects (in 17 categories listed below) to radio frequency and microwave radiation with particular attention paid to the effects on humans of non-ionising radiation. Dr Zorach Glaser, PhD of the US Navy collated and presented the research report.

The Heating of Organs, Changes in Physiologic Function, Central Nervous System Effects, Autonomic Nervous System Effects, Peripheral Nervous System Effects, Psychological Disorders, Behavioural Changes in Animals Studies, Blood Disorders, Vascular Disorders, Enzyme and Other Biochemical Changes (in vitro), Metabolic Disorders, Gastro-Intestinal Disorders, Endocrine Gland Changes, Histological Changes, Genetic and Chromosomal Change, Pearl Chain Effect, Miscellaneous Effects

This declassified report includes the respected 1970 Leningrad USSR publication from IR Petrov, translated by NASA entitled '*Influence of Microwave Radiation on the organism of man and animals*' that shows that these effects have been understood by official bodies for over 50 years, and yet the untested roll out continues.

https://www.electrahealth.com/Bibliography-of-Reported-Biological-Phenomena-Effects-and-Clinical-Manifestations-Attributed-to-Microwave-and-Radio-Frequency-Radiation_df_48.html

To read all of the cited references see this website:

<https://constitutionwatch.com.au/zory-glaser-archives-documents-by-title/>

5.8 On the Clear Evidence of the Risks to Children from Non-Ionizing Radio Frequency Radiation: the case of Digital Technologies in the Home, Classroom and Society.

Professor Tom Butler, University College, Cork, Ireland 2019.

"Children's health and well-being is under significant threat from everyday digital technologies, as the past 15 years have seen the proliferation of microwave Radio Frequency Radiation (RFR) devices in the home, school and society. The safety standards for such devices, smartphones, tablets etc. were based on the proven thermal or heating effects of microwave devices in adults, not children.

Scientists in the life sciences have long been aware of equally harmful non-thermal effects. However, physicists and engineers have operated on the theory that non-ionizing RFR could not directly damage human DNA and lead to cancer, as it was far less powerful than ionizing radiation (x-rays, nuclear etc.). That theory has been solidly and roundly refuted, as this paper illustrates.

Cancer risks aside, research studies have demonstrated that low-intensity RFR elicits a range of pathophysiological conditions in experimental animals and humans. This is why parents, educators and

*governments should be alarmed and take immediate and appropriate action. In an Irish, and indeed international context, **there is clear ignorance on such matters**. In response, this paper aims to inform by presenting clear evidence, in a balanced manner, of the risks to children based on proven scientific theories and empirical evidence. The paper concludes by offering practical advice on how the risks to children, and indeed adults, can be minimised”.*

<https://ehtrust.org/evidence-of-the-risks-to-children-from-smartphone-and-wifi-radio-frequency-radiation-by-professor-tom-butler-univers/>

5.9 A Review of the Health Risks of Radiofrequency Radiation employed in 5G Technology and the Implications for UK Policymaking.

Professor Tom Butler, University College, Cork, Ireland 2020.

*“This short critical review explores the findings of extant research on the health risks posed by 5G technologies that emit radiofrequency radiation (RFR). It also provides evidence that the processes by which policy decisions have been made concerning the protection of public health may be significantly flawed, as **the overwhelming body of scientific evidence appears to have been ignored by relevant government departments and agencies** in arriving at decisions about the introduction of 5G.*

*This lacuna comes about due to the over-reliance on expert opinion from the International Commission on Non-Ionizing Radiation Protection (ICNIRP), an NGO whose members have traditionally had close ties to industry. It is significant that the **UK government and its agencies neither sought nor obtained independent scientific advice on a matter of importance to public health**. Consequently, it failed in its duty to identify, assess, and mitigate the risks posed by RFR-based technologies before their introduction, specifically 5G networking and related technologies, thereby protecting public health.”*

<https://ehtrust.org/a-review-of-the-health-risks-of-radiofrequency-radiation-employed-in-5g-technology-and-the-implications-for-uk-policymaking/>

5.10 Electromagnetic Fields, 5G, and Health: What about the Precautionary Principle?’

Professor John William Frank, Edinburgh University 2020.

*“New fifth generation (5G) telecommunications systems, now being rolled out globally, have become the subject of a fierce controversy. Some health protection agencies and their scientific advisory committees have concluded that there is no conclusive scientific evidence of harm. Several recent reviews by independent scientists, however, suggest that there is significant uncertainty on this question, with **rapidly emerging evidence of potentially harmful biological effects from radio frequency electromagnetic field (RF-EMF) exposures, at levels the 5G roll-out will entail**.*

*This essay identifies four relevant sources of scientific uncertainty and concern: (1) **lack of clarity about precisely what technology is included in 5G**; (2) a rapidly accumulating body of laboratory studies documenting disruptive in vitro and in vivo effects of RF-EMFs—but one with many gaps in it; (3) an almost total lack (as yet) of high-quality epidemiological studies of adverse human health effects from 5G EMF exposure specifically, but rapidly emerging epidemiological evidence of such effects from past generations of RF-EMF exposure; (4) **persistent allegations that some national telecommunications regulatory authorities do not base their RF-EMF safety policies on the latest science, related to un-managed conflicts of interest**.*

The author, an experienced epidemiologist, concludes that one cannot dismiss the growing health concerns about RF-EMFs, especially in an era when higher population levels of exposure are occurring widely, due to the spatially dense transmitters which 5G systems require. Based on the precautionary principle, the author echoes the calls of others for a moratorium on the further roll-out of 5G systems globally, pending more conclusive research on their safety.”

Professor Frank concluded that a moratorium must be imposed and the Precautionary Principle must be activated.

<https://jech.bmj.com/content/75/6/562>

<https://www.independent.co.uk/life-style/gadgets-and-tech/5g-health-risk-covid-john-william-frank-edinburgh-b1789027.html>

5.11 5G: Great risk for EU, U.S. and International Health! Compelling Evidence for Eight Distinct Types of Great Harm Caused by Electromagnetic Field (EMF) Exposures and the Mechanism that Causes Them.

Dr Martin L. Pall, PhD, Professor Emeritus of Biochemistry and Basic Medical Sciences at Washington State University, U.S.A **2018**.

A 2018 overview of 23 studies in the academic journal Environmental Research by Dr Pall provides extensive evidence to the EU regarding eight distinctive types of harm caused by non-ionizing radiation, in the form of 171 reviews providing a high level of scientific certainty, of those effects in multiple primary literature studies.

These are:

- Damage to DNA
- Increase in male and female infertility and miscarriage
- Neurological/neuropsychiatric effects (e.g. sleep disturbance/insomnia; fatigue; headache; depression; lack of concentration/cognitive dysfunction/memory changes; dizziness; restlessness/anxiety/irritability)
- Cell death, leading to neurodegenerative disease, including Alzheimer's
- Oxidative stress/free radical damage, a key factor in the development of cancer
- Widespread endocrine and hormonal effects including reduction in insulin which is linked to the development of diabetes
- Increase in intracellular calcium
- Attacks on the cells of our bodies to cause cancer

<https://einarflydal.files.wordpress.com/2018/04/pall-to-eu-on-5g-harm-march-2018.pdf>

Dr Pall intimately describes the process of cellular harm from microwave assault in chapter 4.8

5.12 Evidence for a Connection between Coronavirus Disease-19 and exposure to Radiofrequency Radiation from Wireless Communications, including 5G.

Beverley Rubik and Robert R. Brown 2021.

The National Centre for Biotechnology Information (NCBI) published a study warning about the dangers of 5G technology, including how it directly contributes to the symptoms commonly associated with the coronavirus (Covid-19). For the study, Beverly Rubik and Robert R. Brown referenced an earlier paper, published in May 2020 by Havas and Tsiang (Appendix 13.5.24) that showed a "statistically significant correlation between the intensity of radio-frequency radiation and mortality from SARS-CoV-2 in 31 countries throughout the world." They also highlighted a U.S. based study showing that areas of the country with 5G infrastructure already in place and operating showed significantly higher rates of serious illness and death attributed to covid, all independent of population density, air quality and latitude. Only 5G matched three different causal analyses used in the study. Population density, air quality and latitude, meanwhile, only matched one or two analyses each, meaning 5G was the verified culprit in negative covid outcomes. Rubik and Brown used these findings to draw a comparison between the bioeffects of WCR (wireless communications radiation), including 5G, and the

symptoms commonly attributed to covid, which they then used to create a list of overlapping physical effects. Symptoms from both WCR and COVID-19 included blood changes such as short-term rouleaux (blood 'clumping'), and long-term reduced hemoglobin (in severe COVID-19 cases); oxidative stress and injury in tissues and organs; immune system disruption, including suppression of T-lymphocytes and elevated inflammatory biomarkers; increased intracellular calcium, which facilitates virus entry and replication; and arrhythmias (heart beat irregularities)

One particularly disturbing finding in Rubik and Brown's study is the observable decrease in glutathione, the body's "master antioxidant," upon exposure to 5G and all wireless radiation. At least two other studies have found that WCR exposure correlates to greatly diminished glutathione levels, the symptoms of which just so happen to match those of covid. Rubik and Brown made specific notes in their paper about how "the finding of low glutathione levels" in patients "further supports oxidative stress as a component" of covid infection. WCR is already widely recognized as a "physiological stressor" that causes detrimental health effects ranging from increased cancer risk and DNA damage to learning and memory problems. Sure, correlation does not always mean causation, but in this case it is more than probable that WCR – and particularly the early activation in 5G in Wuhan, the epicentre of the *pandemic* – is directly contributing to the spread and severity of covid. "The evidence for the connection between COVID and 5G, as well as other forms of wireless communications radiation (WCR), consisted of two main findings: the statistical correlation between COVID-19 symptoms / mortality and area-specific WCR intensity, including that of 5G; and the overlap between WCR effects on the body, and COVID-19 symptoms."

<https://pubmed.ncbi.nlm.nih.gov/34778597/>

5.13 Health Impacts of 5G and Environmental Impacts of 5G

2 x European Parliament commissioned studies by Dr Fiorella Belpoggi, BSC, PhD of the Ramazzini Institute and Arno Thielens of Ghent University, Belgium. 2021.

Health Impacts of 5G

This study has been written by Dr Fiorella Belpoggi, BSC, PhD, International Academy of Toxicologic Pathology Fellow (IATPF), Ramazzini Institute, Bologna (Italy), at the request of the Panel for the Future of Science and Technology (STOA) and managed by the Scientific Foresight Unit, within the Directorate-General for Parliamentary Research Services (EPRS) of the Secretariat of the European Parliament. The scoping review search was performed by Dr Daria Sgargi, PhD, Master in Biostatistics, and Dr Andrea Vornoli, PhD in Cancer Research, Ramazzini Institute, Bologna.

Recent decades have experienced an unparalleled development in wireless communication technologies (mobile telephony, Wi-Fi). The imminent introduction of 5G technology across the EU is expected to bring new opportunities for citizens and businesses, through faster internet browsing, streaming and downloading, as well as through better connectivity. However, 5G, along with 3G and 4G, with which it will operate in parallel for several years, may also pose threats to human health. This STOA report aim to take stock of our present understanding of health effects of 5G.

[https://www.europarl.europa.eu/thinktank/en/document/EPRS_STU\(2021\)690012](https://www.europarl.europa.eu/thinktank/en/document/EPRS_STU(2021)690012)

Environmental Impacts of 5G

This study has been written by Arno Thielens of Ghent University, Belgium, also at the request of the Panel for the Future of Science and Technology (STOA) and managed by the Scientific Foresight Unit, within the Directorate-General for Parliamentary Research Services (EPRS) of the Secretariat of the European Parliament.

Telecommunication networks use radio-frequency electromagnetic fields to enable wireless communication. These networks have evolved over time, and have been launched in successive generations. The fifth generation of telecommunication networks will operate at frequencies that were not commonly used in previous generations, changing the exposure of wildlife to these waves. This report reviews the literature on the exposure

of vertebrates, invertebrates and plants to radio-frequency electromagnetic fields in anticipation of this change. The review shows that dielectric heating can occur at all considered frequencies (0.4 - 300 GHz) and for all studied organisms. Summarising and discussing the results of a series of studies of radio-frequency electromagnetic field exposure of wildlife, the review shows that several studies into the effects of radio-frequency electromagnetic field exposure on invertebrates and plants in the frequency bands considered demonstrate experimental shortcomings. Furthermore, the literature on invertebrate and plant exposure to radio-frequency electromagnetic fields above 6 GHz is very limited. More research is needed in this field.

[https://www.europarl.europa.eu/thinktank/en/document/EPRS_STU\(2021\)690021](https://www.europarl.europa.eu/thinktank/en/document/EPRS_STU(2021)690021)

5.14 Biological Effects of Wireless Technology - Phonegate Alert

Dr Marc Arazi's presentation at the International Scientific Conference in Mainz, Germany Oct 2019.

Leading independent experts recently presented at a meeting in Germany and at the European Parliament. Dr Marc Arazi provided evidence (SAR tests reports from approved laboratory) proving that it is not possible to trust the mobile industry who knowingly overexposed the public to microwave radiation well beyond the so-called limits with 9 out of 10 mobile phones failing the "safety" standards following testing by a French Government Agency in 2012 in real use.

Fegan Scott, a US law firm confirmed the results of Phonegate in Dec 2019. Tests run in an FCC accredited lab showed Apple and Samsung smartphones RF Radiation levels exceeded federal limits by up to 5 times when used as marketed by the manufacturers. The lab tested brand new iPhones 7+, 8 and XR, Samsung Galaxy S8, S9 and S10 at distances of between zero and 10mm from the body. When tested at zero millimeters the iPhone 8 was five times the federal limit and the Galaxy S8 was three times the limit; at 2mm the iPhone 8 and the Galaxy S8 were both more than double the federal exposure limit.

Dr Arazi's presentation can be downloaded:

<https://www.phonegatealert.org/en/dr-arazis-presentation-at-the-international-scientific-conference-in-mainz-germany>.

5.15 5G causes Microwave Syndrome

Lennart Hardell, Research Foundation for Environment & Cancer and Mona Nilsson from the Swedish Radiation Protection Foundation Feb 2022.

The first ever study of the health effects of 5G radiation on humans shows that 5G causes typical symptoms of microwave syndrome as well as a massive increase in microwave radiation. The case study also confirms once again that radiation well below levels allowed by the authorities causes ill health.

The study is in Swedish, but it isn't too difficult to access translations.

The study was published in the journal Medicinsk Access no. 1/2022 and was carried out by the oncologist and researcher Lennart Hardell from the Research Foundation for Environment & Cancer and Mona Nilsson from the Radiation Protection Foundation. The study concerns the health consequences for a man and a woman who received a 5G base station directly above their apartment, only 5 metres above the bedroom.

Measurements before and after the installation of 5G on the roof showed that 5G caused a massive increase in radiation in the apartment. Before 5G, there were already base stations for 3G or 4G in the same place directly above the apartment, but switching to 5G technology led to an increase in radiation from 9,000 microW / m² to a maximum of 1,690,000 microW / m². That is 187 times the exposure level with the 3 previous antenna.

The symptoms that occurred in the man and woman after the start of their exposure to 5G are typical of the microwave syndrome: fatigue, difficulty sleeping, emotional impact, nosebleeds, increasing tinnitus and skin problems in the man. The woman had more symptoms than the man with severe sleep disorders and dizziness, followed by skin problems (burning sensation, tingling in the skin of the hands and arms), concentration problems, irritability, tinnitus, balance problems, impaired short-term memory, confusion, fatigue, tendency to depression, heart and lung symptoms (palpitations, heaviness over the chest) and feeling of warmth in the body.

All symptoms decreased or disappeared completely after 24 hours after moving to another home with significantly lower radiation.

<https://www.riotimesonline.com/brazil-news/modern-day-censorship/swedish-study-says-5g-causes-microwave-syndrome/>

<https://www.activistpost.com/2022/03/study-says-5g-causes-microwave-syndrome-and-confirms-radiation-well-below-levels-allowed-by-the-authorities-causes-ill-health.html>

<https://mieuxprevenir.blogspot.com/2022/02/first-study-so-far-5g-causes-microwave.html?fbclid=IwAR2jNAFoHPsdCkACfShSDP5EBG4-eD6-QXf4gZOP08ObDLl2V308AFDsJ0s#more>

<https://childrenshealthdefense.org/defender/5g-radiation-microwave-syndrome-symptoms/>

5.16 Why Children Absorb more Microwave Radiation than Adults: The Consequences. L. Lloyd Morgan, Santos Kasari, Devra Lee Davis 2014.

Computer simulation using MRI scans of children is the only possible way to determine the microwave radiation (MWR) absorbed in specific tissues in children. **Children absorb more MWR than adults because their brain tissues are more absorbent, their skulls are thinner and their relative size is smaller. MWR from wireless devices has been declared a possible human carcinogen. Children are at greater risk than adults when exposed to any carcinogen.** Because the average latency time between first exposure and diagnosis of a tumour can be decades, tumours induced in children may not be diagnosed until well into adulthood. The fetus is particularly vulnerable to MWR. MWR exposure can result in degeneration of the protective myelin sheath that surrounds brain neurons. MWR-emitting toys are being sold for use by young infants and toddlers. **Digital dementia** has been reported in school age children. A case study has shown when cellphones are placed in teenage girls' bras multiple primary breast cancers develop beneath where the phones are placed. MWR exposure limits have remained unchanged for 19 years. All manufacturers of smartphones must have warnings which describe the minimum distance at which phone must be kept away from users in order to not exceed the present legal limits for exposure to MWR. The exposure limit for laptop computers and tablets is set when devices are tested 20 cm away from the body. Belgium, France, India and other technologically sophisticated governments are passing laws and/or issuing warnings about children's use of wireless devices.

'Will we look back sadly in fifty or a hundred years and marvel at how Wi-Fi and cell phones were responsible for the biggest health crisis in human history?'

<https://www.sciencedirect.com/science/article/pii/S2213879X14000583>

More studies follow in the appendix.

Carl Sagan said:

'The absence of evidence is not evidence of absence'

6.0 NOTABLE COMMENTS & APPEALS MADE BY SCIENTISTS & RESEARCHERS

A small selection of the huge number of comments and appeals made by scientists and researchers the world over.

6.1 A Selection of notable comments.

Prof. Trevor Marshall, Director Autoimmunity Research Foundation, California:

“Allowing this technology [5G] to be used without proving its safety is reckless in the extreme, as the millimeter waves are known to have a profound effect on all parts of the human body.”

Oncologist Lennart Hardell MD:

“There is a substantial body of evidence that this technology is harmful to humans and the environment. The 5G millimeter wave is known to heat the eyes, skin, and testes... Of particular concern are the most vulnerable among us — the unborn, children, the infirm, the elderly and the disabled. It is also expected that populations of bees and birds will drastically decline.”

Dr. Cindy Russell in a 2018 paper entitled “5G wireless telecommunications expansion: Public health and environmental implications”:

“A growing body of scientific literature documents evidence of non-thermal cellular damage from non-ionizing wireless radiation used in telecommunications. This RF EMR has been shown to cause an array of adverse effects on DNA integrity, cellular membranes, gene expression, protein synthesis, neuronal function, the blood-brain barrier, melatonin production, sperm damage, and immune dysfunction.”

Dr. Darius Leszczynski, 18 July 2018 in ‘Assumption of Safety for 5G by Government Agencies, No Science’:

“This is a unique situation in the history of the humankind when the whole human population will be exposed to man-made devices emitting non-ionizing radiation that was insufficiently tested before deployment. What is and what will be the responsibility of the scientists, decision-makers and industry leaders who permit deployment of insufficiently tested technology that will affect us all? The answer is simple – no responsibility... because if any health problems will show up in the future, these will most likely take tens of years of time to manifest and, by then the persons that currently enable deployment of insufficiently tested radiation-emitting 5G technology will be retired or the proverbial ‘six feet under.’”

University of Toronto Dalla Lana School of Public Health Professor Emeritus Anthony B. Miller MD, Member of the Royal Colleges of Physicians of Canada and the UK, and Senior Medical Advisor to EHT and is also a long-term advisor to the World Health Organization stated:

“The evidence indicating wireless is carcinogenic has increased and can no longer be ignored.”

Professor David Carpenter, Director at the Institute for Health and the Environment, University of Albany, USA notes:

“The evidence for harm from both EMFs and radio frequency exposures is strong in both human and animal studies. There are associations between increasing exposure not only with cancer, but also with adverse reproductive outcomes in both males and females, adverse effects on cognitive function and behaviour and increased risk of development of the syndrome of electro-hypersensitivity. We must find ways of reducing human exposure in order to reduce the incidence of human disease.”

Dr. Joel Moskowitz, a public health professor at the University of California told the Daily Mail about how 5G will be harmful. His comments are a frightening warning about just some of the physical effects experts and scientists expect to see with the continued roll out of a 5G cellular network:

“The deployment of 5G, or fifth-generation cellular technology, constitutes a massive experiment on the health of all species. Because Millimeter Waves (MMW’s) are weaker than microwaves, they are predominantly absorbed by the skin, meaning their distribution is quite focused there.” “Since skin contains capillaries and nerve endings, MMW bio-effects may be transmitted through molecular mechanisms by the

skin or through the nervous system.” He also told Daily Mail Online that he's concerned that “5G will use high-band frequencies, or millimeter waves, that may affect the eyes, the testes, the skin, the peripheral nervous system, and sweat glands. Millimeter waves can also make some pathogens resistant to antibiotics.”

Dr. Yael Stein, a physician at the Hadassah Medical Center in Jerusalem wrote a letter in 2016 opposing the implementation of 5G and the Millimeter Wave Technology it would utilise. He addressed the letter to the United States Federal Communication Commission, the U.S Senate Committee on Health, Education, Labour and Pensions and the U.S. Senate Committee on Commerce, Science, and Transportation. Dr. Stein began the letter by saying:

"A group of physicists from the Hebrew University in Jerusalem, together with several physicians, have researched 5G millimeter wave technology (Sub Terahertz frequencies) and its interaction with the human body. I am a physician who participated in this research."

The group's conclusions were:

- Public exposure to millimeter waves, in the sub-Terahertz frequency range, is currently less common. If these devices fill the public space they will affect everyone, including the more susceptible members of the public: babies, pregnant women, the elderly, the sick and electro hypersensitive individuals.*
- Human sweat ducts transmit and perhaps also receive electromagnetic waves that reflect the person's emotional state, as an extension of the sympathetic nervous system that innervates sweat ducts.*
- These newly suggested physiologic and psychological functions of human sweat ducts have not yet been researched by neurophysiologists or by psychologists.*
- Computer simulations have demonstrated that sweat glands concentrate sub-terahertz waves in human skin. Humans could sense these waves as heat. The use of sub-terahertz (Millimeter wave) communications technology (cellphones, Wi-Fi, antennas) could cause humans to percept physical pain via nociceptors.*
- Potentially, if 5G Wi Fi is spread in the public domain we may expect more of the health effects currently seen with RF/ microwave frequencies including many more cases of hypersensitivity (EHS), as well as many new complaints of physical pain and a yet unknown variety of neurologic disturbances.*
- It will be possible to show a causal relationship between 5G technology and these specific health effects. The affected individuals may be eligible for compensation."*

Dr. Martin Pall, PhD, Professor Emeritus of Biochemistry and Basic Medical Sciences at Washington State University, U.S.A. has compiled lots of work, papers and lectures that explain clearly the proven mechanisms of harm as well as how children, insects and trees are particularly affected. His predictions based on current levels of exposure alone are dire and should urgently be heeded but are being ignored by government and industry. Following deployment of 5G, he estimates that collective cognitive decline will be rapid, fertility rates will rapidly decline and few children will be born healthy and without neurological disorders. He categorically states:

"The 5G rollout is absolutely insane".

and:

"Putting tens of millions of 5G antennas, without a single biological test of safety, has to be about the stupidest idea anyone has had in the history of the world."

Dr. Barrie Trower, ex Royal Navy Microwave Weapons Expert said:

"The problem with the microwave communications industry is that they do not have to prove it is safe; you have to prove it is not, and that is an entirely different ball game. As a scientist, if I develop a new pill I have to run a 5 or 10 year clinical trial and convince a board of my peers that it is safe before I have permission to release the pill onto the market. With the telecommunications industry the tables are completely turned around. They do not have to show these instruments are safe; you have to show they are not."

You will hear statements by supposed experts, always the same few in the pay of the telecommunications industry, to the effect that cell-phones/cell towers/microwave radiation have been proven safe in countless studies. It is an easy lie, one that the news media have been eager to propagate.....On 4th July 2004 Dr. Keith Baverstock who was the World Health Organisation's Senior Radiation Advisor in Europe, said that science has been perverted for political ends by Government agencies, which should be protecting Public Health."

and:

"Anyone who puts WiFi into a school should be locked up for the rest of their lives, they are not fit to walk the surface of this planet"

Dr. Oleg Grigoriev, Chairman of the Russian National Committee on Non-Ionizing Radiation Protection said:

"5G may be like a slow Hiroshima."

6.2 A Selection of Worldwide Appeals

5G Appeal to Stop Deployment on Earth and in Space.

There were 299,891 signatories from 214 nations and territories as of 14 February 2020; including Scientists (4,503), Engineers (8,036), Medical Doctors (2,593), Nurses (4,177), Psychologists, Psychotherapists and Social Workers (9,663), Doctors of Naturopathy, Homeopathy, Ayurveda and Medical Qigong (2,777), Doctors of Oriental Medicine (770), Chiropractors (412), Dentists (438), Pharmacists (552), Architects and Builders (3,137), Building Biologists (271), Veterinarians (344), Beekeepers (657), Other Professions (54,148), Citizens (78,082), Organisations (1,835), plus more...

All urgently call for a halt to the deployment of the 5G (fifth generation) wireless network, including 5G from space satellites. 5G will massively increase exposure to radio frequency (RF) radiation on top of the 2G, 3G and 4G networks for telecommunications already in place. RF radiation has been proven harmful for humans and the environment. The deployment of 5G constitutes an experiment on humanity and the environment, and that is defined as a crime under international law.

<https://www.5gspaceappeal.org/the-appeal/>

2020 Physicians Health Initiative for Radiation and Environment (PHIRE) Consensus Statement.

This statement of over 3,500 UK and international medical and scientific experts reflects the consensus from the most recent, independent, expert global forums on the acute and chronic health effects resulting from Radiofrequency Radiation (RFR).

The statement clarifies the medical community's serious concerns surrounding the deployment of 5G and the continued use of RFR in public spaces. Medical evidence of harm has now reached the critical mass necessary to inspire the medical community to step out of their usual roles, stand up and speak out regarding their concerns.

<https://phiremedical.org/2020-nir-consensus-statement-read/>

The International Society of Doctors for the Environment Declaration on 5G.

The ISDE & its subsidiaries in 27 countries and more than 200 doctors and scientists are all calling for a stop to be put on the roll out of 5G due to huge concerns that 5G radio frequency radiation will have widespread adverse health effects.

“An appeal for a standstill in the respect of the precautionary principle. Thus, in the respect of the precautionary principle and of the WHO principle ‘health in all policies,’ we believe suitable the request of a standstill for the “5G experimentations” throughout Europe...”

<https://ehtrust.org/international-society-of-doctors-for-environment-declaration-on-5g/>

EMF Scientist Appeal.

To date 271 scientists from 44 nations, who have published over 2,000 peer-reviewed papers on EMF effects, have signed the EMF Scientist Appeal. The appeal calls on the WHO and the United Nations including its member states to adopt more protective exposure guidelines for EMF including RF radiation in the face of increasing evidence of health risks since these exposures are a rapidly growing form of worldwide environmental pollution.

“We recommend a moratorium on the roll-out of the fifth generation, 5G, for telecommunication until potential hazards for human health and the environment have been fully investigated by scientists independent from industry.”

“5G will substantially increase exposure to radio frequency electromagnetic fields (RF-EMF) on top of the 2G, 3G, 4G, WiFi etc. for telecommunications already in place. RF-EMF has been proven to be harmful for humans and the environment.”

<https://www.emfscientist.org/index.php/emf-scientist-appeal>

European Union 5G Appeal.

The 5G Appeal was prepared in 2017 by over 400 scientists and doctors from 35 countries who are urgently calling for the EU to halt the roll out of 5G due to serious potential health effects from this new technology. 5G will substantially increase exposure to radiofrequency electromagnetic fields (RF-EMF) on top of the 2G, 3G, 4G, Wi-Fi, etc. for telecommunications already in place.

<https://www.5gappeal.eu/>

Environmental Health Trust Webpage.

There are a number of links to other scientific appeals and letters by organisations and scientists located on this page:

<https://ehtrust.org/small-cells-mini-cell-towers-health-letters-scientists-health-risk-5g/>

7.0 REGULATION, GUIDELINES AND CONFLICTS OF INTEREST

Good Regulation is designed to strike a balance between the protection of the public & the needs of industry. It is the essential protection the public need from the advances of industries that are concerned exclusively with maximising profits and controlling markets.

We contend that the regulation for the use of the Electro Magnetic Spectrum is being deceitfully and criminally managed, to the detriment of the general public, in order to allow the telecommunications industry and its sponsors and stakeholders freewill over how it uses the technology.

The advice and permissions over a number of years from captured and corrupted agencies have led us to the present moment, where inadequate regulation has permitted corporate behaviour that has the general public being subjected to harmful levels of non-ionising radiation, which are soon to increase exponentially.

Unlike any other regulatory testing, the burden of proof for safety testing lies with the consumer !

In all other fields, new products require testing, authorisation & certification before being produced. The burden to prove safety and efficacy rests with the company, industry or sponsors before the product is licenced to go to market.

However, with the telecommunications industries new products, including 5G, it perversely seems to be the opposite. Rather than the telecom company having to prove a new products safety, its up to the consumers, scientists and researchers to prove a product is not safe.

Imagine if a weapons manufacturer invented a new gun. On that same basis, the gun would reach the shops without testing unless the consumers could prove it was not safe. It is probably relatively simple to prove a gun is not safe, but it is infinitely more difficult to prove that a product you cannot see, hear, touch, smell or taste is unsafe, especially as the damage caused is not immediate, and the product has corrupt agencies gatekeeping for it.

7.1 Legal Framework

5G needed to be authorised for use in the UK by the Office of Communications (Ofcom). Ofcom rely on advice from, amongst others, Public Health England (PHE), which recently rebranded to the UK Health Security Agency (UKHSA) and ICNIRP, who we cover in 7.2.

Ofcom is the government approved regulatory and competition authority for the broadcasting, telecommunications and postal industries of the United Kingdom. It was initially established by the Office of Communications Act 2002 and received its full authority from the Communications Act 2003. It has wide-ranging powers across the television, radio, telecom and postal sectors. Ofcom has a statutory duty to represent the interests of citizens and consumers by promoting competition and protecting the public from harm. We believe it is grossly and negligently failing to do so.

Ofcom states:

... 'There are internationally recognised guidelines to help ensure services operate in a way that will not adversely affect health.

These guidelines are published by the (ICNIRP) and include limits on EMF exposure for the protection of the general public.

We refer to these limits as the "general public EMF limits."

*In the UK, Public Health England (PHE) takes the lead on public health matters associated with EMF, and has a **statutory duty** to provide advice to Government on **ANY** health effects that may be caused by exposure*

to EMF.

PHE's main advice is that EMF exposure should comply with the general public EMF limits.

In performing that role, we take into account PHE's advice on EMF exposure.

The UK Health Security Agency (UKHSA) has now taken over responsibilities from PHE'

UKHSA is a government body and takes the lead on public health matters associated with electromagnetic fields or radio waves. It has a statutory duty to provide advice to the Government on **ANY** health effects that may be caused by exposure to electromagnetic field emissions. This should mean that when scientists repeatedly show that there **ARE** health effects from exposure to EMF emissions, regardless of the ICNIRP safety limits, then Ofcom, UKHSA and the government should act to protect the public against those health effects. This is not happening. Thousands of scientists have already repeatedly shown that exposure to EMF emissions causes effects on the public's health and yet they all continue to blindly adhere to ICNIRP's 'thermal only' guidelines.

UKHSA states: *'PHE's main advice about radio waves from base stations is that the guidelines of the International Commission on Non Ionizing Radiation Protection should be adopted for limiting exposures.'*

The Department of Health and Social Care said: *'Exposure to radio waves has been carefully researched and reviewed. The overall weight of evidence does not suggest devices producing exposures within current guidelines pose a risk to public health.'*

The UK government meanwhile has added that: *'It is possible that there may be a small increase in overall exposure to radio waves when 5G is added to an existing network or in a new area. However, the overall exposure is expected to remain low relative to guidelines and, as such, there should be no consequences for public health.'*

OFCOM and UKHSA have repeatedly failed to provide the government with ongoing relevant scientific data in order that they can legislate correctly, and are in serious breach of their statutory duty.

This is mirrored in America, where the Federal Communications Commission (FCC) were recently found to have demonstrated:

"a complete failure to respond to comments concerning environmental harm caused by RF radiation."

On 13 August 2021, the United States Court of Appeals for the District of Columbia Circuit found the FCC ignored numerous organizations, scientists and medical doctors who called on them to update the limits. The court found the FCC failed to address the following issues: **1.** impacts of long term wireless exposure, **2.** impacts to children, **3.** the testimony of people injured by wireless radiation, **4.** impacts to wildlife and the environment, **5.** impacts to the developing brain and reproduction. This is covered in chapter 11.

22 years ago in 2000, The Stewart Report recommended that the government apply the precautionary principle to radio frequency radiation. This was ignored. Sir William Stewart also said that no child under 15 should use a mobile phone except in an emergency. Governments have consistently failed in their duty to protect public health.

<http://www.iegmp.org.uk/report/text.htm>

Government response:

'However there is some evidence that changes in brain activity can occur below those guidelines, but it isn't clear why. There are significant gaps in our scientific knowledge.'

http://www.dti.gov.uk:80/cii/regulatory/telecomms/telecommsregulations/mobilephones_and_health.shtml

The Government, UKHSA and Ofcom, the parties responsible for public safety in UK, all follow ICNIRP's 1998 Guidelines and have concluded and certified that 5G is safe for use in UK.

Worldwide, governments are allowing the roll out of 5G to proceed at breakneck speed, with the **UK government even consulting on a proposal to allow local authorities to bypass the need for planning permission, by reclassifying the erection of 5G masts as 'permitted development', similar standing to building an extension on your property.**

<https://www.gov.uk/government/consultations/changes-to-permitted-development-rights-for-electronic-communications-infrastructure-technical-consultation/changes-to-permitted-development-rights-for-electronic-communications-infrastructure-technical-consultation>

We also have the telecommunication companies monitoring and self certifying their own technology without much intervention from any of the agencies tasked with oversight.

7.2 ICNIRP and their 'Safety' Guidelines.

The International Commission for Non Ionizing Radiation Protection (ICNIRP) was formed in 1992, succeeding the International Radiation Protection Association (IRPA) who had been in existence since 1974. It is a non-governmental organization centred in Germany. It consists of a main commission in which membership is limited to 14. The membership are supported by 25 scientists. Their details can be found on the ICNIRP website.

Their most important task was the establishment of safety limits for non-ionizing radiation including Radio Frequency Radiation. ICNIRP's decisions are of utmost importance for the mobile communication industry's economic and strategic planning.

The ICNIRP guidelines were created in 1998 before wireless technology had been prolifically rolled out. They were updated in 2010 & 2020, due in part to the 4G/5G rollouts. These updates actually increased the maximum exposure times and levels of exposure to allow for further thermal effects but continue to ignore the crucial non-thermal biological effects.

What do these guidelines 'actually' mean and why are independent scientists warning that they are both irrelevant and inadequate for health and environmental protection?

In the Guidelines introduction, ICNIRP state:

*'In establishing exposure limits, the **Commission recognizes the need to reconcile a number of differing expert opinions.** The validity of scientific reports has to be considered, and extrapolations from animal experiments to effects on humans have to be made'*

They then proceed to ignore their own introductory advice, by choosing to ignore, smear or sidestep those '*differing expert opinions*,' whose scientific reports, many peer reviewed, indicate biological harm in both animals and humans at levels way below their exposure limits.

Government and industry 'safety' advice regarding radio frequency (RF) non-ionising (i.e. 100 KHz to 300 GHz) exposure are all based on ICNIRP's guidelines.

ICNIRP guidelines maintain that there is '*no convincing evidence*' or that '*it does not appear*' that exposure to radio frequencies '*below guidelines*' poses any risk to public health. They state that there is '*no evidence of harm*' from exposure to non-ionising radiation at levels below these guidelines. If a device or mast/cell tower is self-certified to the ICNIRP guidelines then it is 'safe' and cannot be challenged on health grounds. This is the standard brick wall response from all industry, council representatives and government departments.

In summary (and plain English) the guidelines state that pulsed microwave non-ionising radiation ‘*poses no health risk*’ as long as it does not heat the body or a body part up by 2 degrees over a 6-minute exposure to ‘*effect pain, burning or scorching.*’ All evidence of ‘*biological cellular effects*’ is dismissed as non-conclusive or irrelevant. So, for example, your microwave oven would heat you up quickly as the power density is high so would be harmful according to ICNIRP guidelines, but your phones 4G or 5G signals pose no danger as they do not heat you up more than 2 degrees in a short 6 minute thermal test. Some people hold their phones next to their heads for hours at a time. To comply with insurance company demands the warnings against this are predictably not clear and in the very small print when they should be prominently displayed in the instructions and on the packaging, as tobacco companies have eventually been forced to do.

The ICNIRP guidelines were set up with experiments on an adult physiology. Children are much more vulnerable to the effects of microwave radiation and so harm would develop at a much lower exposure not allowed for in ICNIRP’s guidelines. This is detailed in chapter 5.16.

It is also assumed in the ICNIRP guidelines that, because the spectrum used for wireless telecommunications falls within the ‘non-ionising’ frequency range (so that it does not ‘ionise’ as does nuclear radiation/x-rays etc.), that it is therefore safe and cannot cause cancer or any other cellular changes via other biological mechanisms. THIS IS NOT TRUE. Thousands of independent scientists and thousands of independent (non industry funded) peer-reviewed studies show that non-ionising radiation is harmful to health via many profound biological mechanisms that lead to the multiple conditions we are seeing on the rise today including cancer.

The ICNIRP website <https://www.icnirp.org/en/activities/public-consultation/consultation-1.html> contains a PDF link to the ICNIRP guidelines. In between the deliberately confusing wording and assumptions, all biological effects of non-ionising radiation exposure are dismissed and the main risk i.e. burning/scalding outlined. **The many impossibly complex mathematical exposure formulas are based on short exposure (i.e. 6 or 30 minutes). It states that the body is ‘capable of dissipating heat’ with mechanisms such as ‘sweating’ and therefore concludes that a heating effect on the body from being microwaved is acceptable. Exposures below guidelines do not cause any harm, according to the guidelines, and this also applies to children, embryos and vulnerable groups.**

Below is a quote from the ICNIRP site:

“The critical effect of HF (high frequency) exposure relevant to human health and safety is heating of exposed tissue. HF fields can penetrate into the body (the higher the frequency, the lower the penetration depth) and cause vibration of charged or polar molecules inside. This results in friction and thus heat.

The body can accommodate a small increase in heat, in a similar way that excess body heat is dissipated when performing sporting activity. This is because the human body has a strong ability to regulate its internal temperature. However, above a certain level (referred to as the threshold) depending on the duration of exposure, HF exposure and the accompanying temperature rise can provoke serious health effects, such as heatstroke and tissue damage (burns).

The overall evaluation of all the research on HF fields leads to the conclusion that HF exposure below the thermal threshold is unlikely to be associated with adverse health effects.”

The site also contains a notice of non liability. This is of particular concern, as the organisation responsible for this advice does not even guarantee the accuracy of its own advice or take liability for it.

"ICNIRP e.V. undertakes all reasonable measures to ensure the reliability of information presented on the website, but does not guarantee the correctness, reliability, or completeness of the information and views published. The content of our website is provided to you for information only. We do not assume any responsibility for any damage, including direct or indirect loss suffered by users or third parties in connection with the use of our website and/or the information it contains, including for the use or the interpretation of any technical data, recommendations, or specifications available on our website."

<https://www.icnirp.org/en/legal-notice.html>

Furthermore, industry self-certification to ICNIRP limits is all that is required. No one is even checking if the carrier is operating within so-called “safety” limits.

The ICNIRP guidelines DO NOT take any of the following into account:-

- Non-thermal effects of RF radiation.
- Effects on cell biology, nervous systems, heart function etc.
- Effects of multiple frequencies and multiple device exposure.
- Effects of pulsed/polarised frequency exposure.
- Cumulative effects and continuous exposures.
- Effects on wildlife, trees, plants, birds, bees, pollinators, bacteria and viruses etc.
- Effects on children.

This is a link to a plain English overview of ICNIRP guidelines and how Specific Absorbtion Rates (SAR) ratings are obtained:

<https://ehtrust.org/sar-test-inadequate/>

This is an article on the flaws of the ICNIRP guidelines:

<http://www.es-uk.info/wp-content/uploads/2019/10/03.6-Serious-flaws-in-the-WHO-ICNIRP-claims-on-5G-and-RF-wireless-radiation.pdf>

The ICNIRP guidelines are contrary to the Council of Europe (COE) 1815 Resolution and to the European 2016 guideline, which confirm the published peer-reviewed science that anything over 600 mV/m should be limited to short-term exposure, and long-term exposure should be no more than 200 mV/m. This is orders of magnitude lower than the 6-minute, 61,000 mV ICNIRP guideline, which is a biological cooking value. **ICNIRP is widely acknowledged to be a “captured agency”, as confirmed in the Italian courts, where the Turin Court of Appeal 904/219 of 3 Dec 2019 fully confirmed the 2017 Court of Ivrea judgment, stating that ‘*acoustic neurinoma was caused by the working use of the mobile phone*’, and that ‘*scientists financed by the telephone industry as well as ICNIRP members are less reliable compared to independent scientists.*’**

https://www.radiationresearch.org/wp-content/uploads/2020/01/Turin-Verdict-ICNIRP_Judgment-SUMMARY-of-the-Turin-Court-of-Appeal-9042019_EN-min.pdf

In summary, ICNIRP guidelines DO NOT PROVE biological safety to humans, let alone embryos, insects, birds, bees, trees and wildlife nor recognise there could be a potential harmful effect even on the atmosphere itself. There is no biological testing or independent scientific evidence that is taken into account in these guidelines. They do not even guarantee correctness. They do not take responsibility for interpretation. They do not take responsibility for damage in connection with the information. Yet industry is allowed to roll out, self certificated, using them. **Why do we have regulatory agencies if they allow industry to self certify ?**

In contrast, thousands of credible scientists, supported by peer-reviewed studies, across the world are reporting harmful biological effects of non-ionising radiation exposure at sub thermal levels thousands/or millions of times below ICNIRP guidelines and people across the world are reporting increased illness directly related to radiation exposure. This is already occurring at existing exposure levels **BEFORE** the deployment of 5G, the smart grid and the IoT.

7.3 ICNIRP Conflicts of Interest

When accepting ICNIRP advice, it is important to have an appreciation of the conflicts of interests that exist

within this and other regulatory bodies. Evidence of conflict of interests is complex and extensive and only a small sample can be provided within scope of this document.

The succession of a member who leaves ICNIRP is regulated by internal statute. The remaining members select the new one on the basis of mutual understanding. We would contend this is to guarantee that the mobile communication industry can permanently rely on ICNIRP's decision makers.

ICNIRP, whose members promote the harmlessness of wireless radiation, has never changed its singular position despite all the scientific research produced in this field since 1992.

ICNIRP, who are backed by industry-funded groups, have ensured that the mobile communication industry dominates the technical research. They act as gate-keepers by consistently undermining valid opposing studies.

ICNIRP form a small cartel of people holding a minority scientific viewpoint, which favours the wireless industry. This is in contrast to the thousands of international independent scientists calling on governments and world regulatory bodies to halt 5G and re-assess the use of existing wireless technology. This is in fact the majority scientific opinion. They are simply being ignored or discredited by ICNIRP and the WHO.

Below are links to several reports outlining details of the conflicts of interest that exist within and between the various regulatory bodies:-

These links details some of the conflict of interest:

<https://www.ncbi.nlm.nih.gov/m/pubmed/28656257/>

<https://pubmed.ncbi.nlm.nih.gov/27902455/>

Abstract: "In May 2011 the International Agency for Research on Cancer (IARC) evaluated cancer risks from radiofrequency (RF) radiation. Human epidemiological studies gave evidence of increased risk for glioma and acoustic neuroma. RF radiation was classified as Group 2B, a possible human carcinogen. Further epidemiological, animal and mechanistic studies have strengthened the association. In spite of this, in most countries little or nothing has been done to reduce exposure and educate people on health hazards from RF radiation. On the contrary ambient levels have increased.

In 2014 the WHO launched a draft of a Monograph on RF fields and health for public comments. It turned out that five of the six members of the Core Group in charge of the draft are affiliated with International Commission on Non-Ionizing Radiation Protection (ICNIRP), an industry loyal NGO, and thus have a serious conflict of interest. Just as by ICNIRP, evaluation of non-thermal biological effects from RF radiation are dismissed as scientific evidence of adverse health effects in the Monograph. This has provoked many comments sent to the WHO. However, at a meeting on 3 March 2017 at the WHO Geneva office it was stated that the WHO has no intention to change the Core Group."

There have been many accusations that ICNIRP's members have multiple Conflicts of Interest.

In a startling study published in October 2020, in the National Centre for Biotechnology Information (NCBI) which is part of the United States National Library of Medicine, a branch of the National Institutes of Health, authored by Lennart Hardell & Michael Carlberg entitled: 'Health risks from Radio Frequency Radiation, including 5G, should be assessed by experts with no Conflicts of Interest', Hardell & Carlberg states:

*'The fifth generation, 5G, of Radio Frequency (RF) Radiation is about to be implemented globally **without investigating the risks to human health and the environment.***

This has created debate among concerned individuals in numerous countries.

In an appeal to the European Union (EU) in September 2017, currently endorsed by >390 scientists and

medical doctors, a moratorium on 5G deployment was requested until proper scientific evaluation of potential negative consequences has been conducted.

This request has not even been acknowledged by the EU.

The evaluation of RF radiation health risks from 5G technology is ignored in a report by a government expert group in Switzerland and a recent publication from the ICNIRP.

Conflicts of interest and ties to the industry seem to have contributed to the biased reports.

The lack of proper unbiased risk evaluation of the 5G technology places populations at risk.

Furthermore, there seems to be a cartel of individuals monopolizing evaluation committees, thus reinforcing the no-risk paradigm

We believe that this activity should qualify as scientific misconduct'

<https://pubmed.ncbi.nlm.nih.gov/32774488/>

One example, out of many conflicts of interest, would be that of Martin Rösli who is a member of ICNIRP. He is also a member of the board of the telecom funded 'Swiss Research Foundation for Electricity and Mobile Communication' (FSM) organization and has received documented funding from them. This creates an obvious conflict of interest, and is far from an isolated incident.

Conflicts of interests with links to industry are of great importance. They may be direct or indirect funding for research, payment of travel expenses, participation in conferences and meetings, presentation of research etc. Such circumstances are not always declared.

Emilie van Deventer, who became the team leader of the Radiation Programme at WHO (the International EMF Project) after the WHO voted to classify RFR as a 'possible' carcinogen, is also an observer on the main ICNIRP commission, possibly to ensure no more voting slip ups.

There are 9 members of ICNIRP who also now sit on the WHO International Agency for Research of Cancer Group.

'Investigate Europe' identified all 14 scientists at ICNIRP who protect their obsolete and inadequate EMF exposure guidelines by preparing biased reviews of the research literature: Martin Rösli, Maria Feychting, Simon Mann, Michael Repacholi, Eric van Rongun, Emilie van Deventer, Joachim Schuz, Norbert Leitgeb, Maria Rosario Scarfi, Anders Ahlbom, Gunnhild Oftedal, Sarah Loughran, Anthony Swerdlow, Zenon Sienkiewicz. At least eight have had documented industry research funding.

The following exchange is a perfect example of how ICNIRP function.

The National Toxicology Program (NTP) study mentioned in chapter 5 was a 10 year, \$28 million study on the effects of RFR on rats and mice. The results were a blow to the industry, who moved quickly to unleash ICNIRP in an attempt to limit the PR damage. ICNIRP stated:

'Although the NTP study and the Ramazzini study used large numbers of animals, best laboratory practice, and exposed animals for the whole of their lives, consideration of their findings does not provide evidence that radio frequency EMF is carcinogenic.

NTP reported that their strongest findings were of increased malignant cardiac schwannoma in male rats, however that is not consistent with the results of the Italian study, is not consistent with the NTP female rat nor male or female mouse results, and is not consistent with the radio frequency EMF cancer literature more generally.

While results from epidemiological studies suggest vestibular schwannoma is an outcome of interest, this is not true for malignant cardiac schwannoma.

NTP found no increase in schwannoma overall or for vestibular schwannoma.

*Further, as multiple comparisons were **not controlled** for in the NTP study, there is no indication that the increased incidence of malignant cardiac schwannomas in male rats was more than what would be expected by chance alone.*

*ICNIRP considers that the NTP and the Italian study **do not provide a consistent, reliable and generalizable body of evidence that can be used as a basis for revising current human exposure guidelines.***

Further research is required that addresses the above limitations.'

Dr. Ronald Melnick was a Senior Scientist in the National Toxicology Program, the National Institute of Environmental Health Sciences and National Institute of Health. He served as a toxicologist for over 28 years before retiring in 2009. In 2007 he received the American Public Health Association's David P. Rall Award for science-based advocacy in public health. He commented on ICNIRP's response:

*'From the NTP Study it must be concluded that the safety limits established by ICNIRP are **unable to guarantee** the intended purpose, which is **the protection of people from harmful effects of the mobile communication radiation**, and that therefore time has come for IARC (WHO International Agency for Research of Cancer Group) **to adjust the classification of RF radiation from** "possibly carcinogenic for humans" (Group 2B) **to** "probably carcinogenic to humans" (Group 2A) **or even "carcinogenic to humans" (Group 1.)***

Casting doubt on the NTP results, which threaten the business model of the mobile communication industry, as done by ICNIRP, is a betrayal of science.

*If any further proof that **ICNIRP is a public relations organization of the mobile communication industry** would have been necessary, its note on recent animal carcinogenesis studies quoted above has finally adduced it.*

ICNIRP argues that the NTP Study has no reliable basis to revise the current safety limits for RF radiation.

Since its guidelines are solely based on acute thermal effects of the radiation, believing that other effects do not exist, the argument is not without logic to them.

*However, the NTP Study has clearly shown that this stand is absolutely unfounded, because the **RF radiation unfolds its harmful effects also within the safety limits, when the exposure time is long enough.***

The NTP Study, up to now certainly the most ambitious and the most convincing one, has proven this with "clear evidence."

*At the same time, it has **refuted the reliability of the current safety limits.** As always in such cases the robot-like answer by ICNIRP is that many questions must be answered until causality can finally be acknowledged.*

ICNIRP wants the perfect study.

*The fact that **this is impossible because of the nature of biological research**, can obviously not be imparted to its members.*

*So they show either **incompetence** in regard of their scientific qualifications or, most probably, the **intention to help the mobile communication industry** in a difficult situation.*

It looks as if ICNIRP is once again used by this industry to enforce its interests, and this time with a method copied from the tobacco industry.

By sowing doubt for decades, the tobacco industry succeeded in keeping people unsure about the already certain fact that smoking causes lung cancer.

Now the mobile communication industry uses the same tactic, and this with even more dire consequences: the addiction might be comparable, but the number of addicts and victims is by far much higher.

Based on numerous incorrect and misleading claims, the ICNIRP report concludes that ‘these studies (NTP and Ramazzini) do not provide a reliable basis for revising the existing radio frequency exposure guidelines.’

The data on gliomas of the brain and schwannomas of the heart induced by cell phone radiation are suitable for conducting a quantitative risk assessment and subsequent re-evaluation of health-based exposure limits.

The ‘P’ in ICNIRP stands for Protection.

One must wonder who this commission is trying to protect, evidently it is not public health.’

Following on from that are the observations of Dr. Fiorella Belpoggi, director of the ‘Cesare Maltoni’ Cancer Research Centre of the Ramazzini Institute, the other study criticized by ICNIRP:

‘Both the NTP and the RI studies were well performed, and no bias affected the results. The ICNIRP confirms this conclusion.

Schwannomas are tumours arising from the Schwann cells. They are peripheral glial cells which cover and protect the surface of all nerves diffused throughout the body; so vestibular (acoustic nerve) and heart schwannomas have the same tissue of origin: ICNIRP seems to ignore that.

In rats, increases in malignant heart schwannomas, malignant glial tumors of the brain and Schwann Cell Hyperplasia (a pre-malignant lesion) are rare yet these lesions were observed in exposed animals in both laboratories, at thousands of kilometres distance, in a wide range of radio frequency radiation exposures studied. These findings could not be interpreted as occurring ‘by chance.’

We are scientists. Our role is to produce solid evidence for hazard and risk assessment.

Underestimating the evidence from carcinogen bioassays and delays in regulation have already proven many times to have severe consequences, as in the case of asbestos, smoking and vinyl chloride.

This position of ICNIRP represents its own responsibility toward citizens and public health. ICNIRP is not a public health agency that routinely evaluates carcinogens. On the other hand, an independent agency that has evaluated over 1000 agents, IARC, as early as 2011 classified radio frequency radiation as a possible carcinogen on the basis of limited evidence in humans and limited evidence in animals.

The studies of the RI and NTP will certainly contribute to the burden of evidence that IARC and other public health agencies can draw upon as a solid base for the re-evaluation of RFR carcinogenicity.’

7.4 Exposure limits

Dr Andrew Goldsworthy said:

‘What ICNIRP have done is a little bit like setting the road speed limit outside a primary school at one thousand miles an hour. Then they can say, everyone’s within the speed limit. People are being killed, but its okay, they’re within the limit.’

To close the chapter on Regulation, follows a brief guide to those ICNIRP limits that are, or are not, being observed and regulated.

It is very difficult and confusing to negotiate your way through the myriad of differing formulas and measuring scales and work out which level of non-ionising radiation is actually safe and which is harmful. Maybe this confusion has always been the intent.

According to the **1998 ICNIRP Guidelines** that have been used by the UK government to justify the blanket approval of all wireless products and now the 5G rollout:

- Radio Frequency Non Ionising Radiation becomes concerning at **9,000 mW/m²**.
- Electric Fields become concerning at **5000 V/m**.

There is a huge chasm between the ‘thermal/heating only’ ICNIRP Guidelines and the Bio-Initiative and Building Biology Guidelines that take non-thermal and biological effects into account. If one is correct, that means the other is incorrect. The thousands of independent peer reviewed studies consistently show that harmful biological effects occur at levels thousands of times below the outdated thermal heating guidelines promoted by ICNIRP.

The ICNIRP Guidelines are also set for 6 minutes exposure only. The people living in close proximity to the masts, for example patients staying in St Cath’s Hospital (masts 81 and 82) will be subjected to this ‘possible carcinogen’ for 24 hours a day, 7 days a week, not just 6 minutes ! This alone should render the ICNIRP Guidelines irrelevant for what they are being used to justify. Looking for guidance on safe exposure levels for Masts in ICNIRP’s guidelines is like looking for Liverpool’s results in the Bible. One does not support the other.

Various scientific guidelines are linked below with the Bio Initiative Guidelines also described in chapter 5.2.

According to the independently researched **Bio-Initiative Report Guidelines**:

- Radio Frequency Non Ionising Radiation becomes concerning at **0.006 mW/m²**.

According to the independently researched **Building Biology Evaluation Guidelines**:

- Radio Frequency Non Ionising Radiation becomes **extremely** concerning at **1 mW/m²**.
- Electric Fields become **extremely** concerning at **50-64 V/m**.

To further illustrate how out of touch ICNIRP, and subsequently, our government have become:

In 2017, the autonomous province of Bolzano in Italy set guidelines of **24 mW/m²** and **3 V/m**.

The 2001 Salzburg Resolution set the limit for RF exposure in humans at **1 mW/m²**.

The Parliamentary Assembly of the Council of Europe in 2011 set the same limit **1 mW/m²**.

<http://assembly.coe.int/nw/xml/XRef/Xref-XML2HTML-en.asp?fileid=17994>

The 2010 Seletun Consensus Statement was a little more cautious recording the safety limit at **0.17 mW/m²**.

<http://electromagnetichealth.org/wp-content/uploads/2010/12/The-Seletun-Scientific-Statement1.pdf>

IGNIR (International Guidelines on Non Ionising Radiation) set the exposure limit at **0.1 mW/m²** in daytime, **0.01 mW/m²** at night and **0.001 mW/m²** for the electro sensitive humans.

<https://files.persona.co/72583/IGNIR-Guidelines-Issue-1.1-Oct.2018b.pdf>

The Standard of Building Biology Testing Methods 2015 – Building Biology Evaluation Guidelines for sleeping areas sets severe to extreme concerns between **0.01 – 1 mW/m²** and electric fields at **5 – 64 V/m**.

<https://www.emf-detector.org/home/exposure-guidelines/>

60% of the worlds peoples exposure limits follow ICNIRP or IEEE Guidelines and are approximately **9,000 mW/m²**.

The remaining **40%** of the worlds population are being governed by slightly more sensible authorities that have reduced their exposure limits to this harmful radiation.

Austria	0.01-0.001 mW/m² .
Belgium	24 mW/m² .
Bulgaria	24 mW/m² .
China	400 mW/m² .
France	100 mW/m² .
Hungary	100 mW/m² .
India	45 mW/m² .
Israel	900 mW/m² .
Italy	100 mW/m² .
Liechtenstein	1 mW/m² .
Lithuania	900 mW/m² .
Luxembourg	24 mW/m² .
Poland	100 mW/m² .
Russia	100 mW/m² .
Slovenia	1000 mW/m² .
Switzerland	42-95 mW/m² .
Ukraine	24 mW/m² .

This illustrates the seismic disparity between the limits for safe human exposure propagated by governments the world over and that of genuine unbiased scientific circles.

In our Study, we found that **100%** of all Wirral masts already breach the safe exposure guidelines of many independent scientific safety guidelines, and that's before 5G is even fully activated.

The data for the Wirrals masts follows in chapter 10.

To conclude, we maintain that ICNIRP are mired in controversy and accusations of corruption, receiving funding and support from the telecommunications industry in order to keep the pathway clear for this new technology to advance without interruption.

There is also collusion between ICNIRP, the telecom industry and the regulatory agencies, including members of government agencies and Ofcom, to ignore new scientific findings and information and stick steadfastly to thermal only guidelines.

ICNIRP's outdated research has also been discredited & undermined by thousands of papers, many peer reviewed, demonstrating overwhelming evidence that exposure to non ionising radiation causes serious non thermal biological effects at levels WAY below current ICNIRP guidelines.

ICNIRP is not based on real science. It is an agenda driven and paid for science and provides the political cover for this dangerous experiment exposing the human populations to hazardous levels of radiation.

With all this in mind, the decision to allow the industry to self certify and self monitor is beyond comprehension.

Tom Wheeler, former president of the US regulator, the Federal Communications Commission (FCC) from 2013 to 2017, made quite a disturbing speech on 20 June 2016 before he left the post in which he said:

... 'if anyone tells you that they know the details of what 5G is going to become, run the other way, because it is the capacity to use this new capability that will determine what our future looks like.

Yes, 5G will connect the internet of everything, if something can be connected it will be connected in a 5G world, but with the predictions of hundreds of billions of microchips connected in products from pill bottles to plant waterers, you can be sure of only one thing: the biggest internet of things application has yet to be imagined.

Unlike some countries, we do not believe that we should spend the next couple of years studying what 5G should be or how it should operate and how to allocate spectrum, based on those assumptions.

Like the examples I gave earlier, the future has a way of inventing itself. Turning innovators loose is far preferable to expecting committees and regulators to define the future.'

<https://www.press.org/newsroom/video/npc-luncheon-tom-wheeler>

<https://www.youtube.com/watch?v=22QlpjXR6DY>

This is an astonishing statement from the sitting president of the American Regulatory body at that time. He boasts that the regulatory body is not going to study 5G, instead allowing for what he calls 'innovators' to 'define the future.'

There are clear inaccuracies, limitations and conflicts of interest that should disqualify ICNIRP guidelines as adequate to protect our health and environment. ICNIRP should not be unquestionably followed by councils, schools and authorities.

Relying on industry to self regulate and self monitor is akin to putting the fox in charge of the hen house, especially when it comes to the installation and upgrading of untested devices emitting, what the WHO call a 'possible' carcinogen, harmful non ionising radiation in our towns, near our homes, schools, hospitals and workplaces, causing damage to adults, never mind the more physically and mentally vulnerable children.

8.0 THE FOURTH INDUSTRIAL REVOLUTION

The First Revolution was Agricultural
The Second Revolution was Industrial
The Third Revolution was Electrical

We are all currently being quietly ‘nudged’ by our governments, their sponsors and their stakeholders around the world towards what is interestingly termed The Fourth Industrial Revolution (4IR) which is digital and is also termed by some as the Great Reset.

8.1 The Great Reset

Western civilisation may soon have reached a point where it is impossible to continue life as we have come to know it. Our capitalist system may be very close to breaking point.

In September 2019 just before ‘Covid’ there was a massive financial crash which was barely mentioned in the mainstream media. The Repo Market (Repurchasing Agreements) collapsed. This was an integral market in the world financial system and according to many insiders, was a much bigger jolt than the 2008 financial crash.

Governments worldwide have long built up completely unsustainable levels of debt in what has become a completely debt based economy. The ‘pandemic’ exacerbated this debt, but it was already a ticking timebomb.

These figures are from ‘World Debt Clocks’ and are approximate:

USA -	£22 trillion in debt	Brazil -	£1.5 trillion in debt	India –	£1.9 trillion in debt
UK -	£2.5 trillion in debt	Australia -	£700 billion in debt	Japan -	£3.2 trillion in debt
China -	£8.5 trillion in debt	Germany -	£3.2 trillion in debt	Russia -	£750 billion in debt
South Korea -	£1.2 trillion in debt	Canada -	£1.2 trillion in debt	Spain -	£10 trillion in debt
France -	£2.1 trillion in debt	Italy -	£1.5 trillion in debt	Mexico -	£800 billion in debt

Total worldwide national debt has reached approximately £73,000,000,000,000 (£73 trillion).

Beneath the veneer, the system is broken. It appears that rather than fix the existing system, our leaders and their partners and stakeholders are proposing a totally new system. The new system that is being quietly put forward will be a dystopian nightmare for everyone aside from the system controllers.

A new Central Bank Digital Currency (CBDC) backed by nothing, and where every transaction is tracked, logged and controlled by a central bureaucracy, yet to be revealed, is what will probably rise from the ashes of our present capitalist fiat based currency system. A centralised global cashless blockchain based digital crypto currency.

We reject this system that is planned under the Great Reset. In fact, we reject the entire Great Reset.

It is widely understood that the World Economic Forum and their partners are behind these moves.

8.2 World Economic Forum

The World Economic Forum (WEF) has for 50 years been attracting royalty, politicians, CEO’s and the worlds top decision makers and financiers to Davos for their annual meetings. Professor Klaus Schwab, its founder and executive chairman, has made speeches at numerous government meetings worldwide. What he says about the future is concerning because when he says something it seems to hold great influence.

The WEF represents nearly 1000 of the worlds largest corporations, which can be viewed on their website and include:

Astra Zeneca, [Axa](#), Amazon, [Apple](#), AIG, [Alibaba](#), BAE, [Boeing](#), Barclays, [Bank of America](#), Bayer, [Blackrock](#), Bill & Melinda Gates Foundation, [Bank of China](#), BP, [Cisco](#), Carlyle Group, [Coca Cola](#), Credit Suisse, [Dow Jones](#), Dell, [Deloitte](#), Deutsche Bank, [European Investment Bank](#), Google, [Goldman Sachs](#), Huawei, [HSBC](#), Johnson & Johnson, [IBM](#), Intel, [Lloyds](#), Lockheed Martin, [Morgan Stanley](#), Moderna, [Microsoft](#), META, [Merck](#), Mastercard, [Novartis](#), New York Stock Exchange, [New York Times](#), Pzifer, [Pepsi Co](#), Paypal, [Palantir](#), Rio Tinto, [Sony](#), Shell, [Sanofi](#), Saudi Aramco, [Siemens](#), State Street, [Unilever](#), Uber, [UBS](#), Visa, [Verizon](#), Western Union, [Wellcome Trust](#), Walmart , [Yahoo](#).

<https://www.weforum.org/partners#search>

WEF's current board of trustees include former head of Bank of England and currently [Special UN Envoy for Climate Change and Finance Mark Carney](#), Deputy Prime Minister and Minister of Finance for Canada Chrystia Freeland, [President of the European Central Bank Christine Lagarde](#), Blackrock CEO Laurence D Fink, [Managing Director of IMF Kristalina Georgieva](#), Co Founder and Co Chairman of The Carlyle Group David M Rubenstein, [President of the European Commission Ursula von der Leyen](#) and Al Gore to name but a few.

Professor Klaus Schwab said of The Fourth Industrial Revolution:

*'Of the many diverse and fascinating challenges we face today, the most intense and important is how to understand and shape the new technology revolution, which entails nothing less than a **transformation of humankind**.*

The Fourth Industrial Revolution represents a fundamental change in the way we live, work and relate to one another.

It is a new chapter in human development, enabled by extraordinary technology advances commensurate with those of the first, second and third industrial revolutions.

*These advances are merging the physical, digital and biological worlds so profoundly that, from the perspective of human history, **there has never been a time of greater promise or greater potential peril.***

*The speed, breadth and depth of this revolution is forcing us to rethink how countries develop, how organisations create value and even **what it means to be human.***

*What the Fourth Industrial Revolution will lead to is **a fusion of our physical, our digital, and our biological identities.***

*In its scale, scope and complexity, what I consider to be the **Fourth Industrial Revolution is unlike anything humankind has experienced before***

Indeed he recently wrote two books entitled 'The Fourth Industrial Revolution' in 2016 and 'Covid 19, The Great Reset' released 2020, a few months after the pandemic began. He's a quick writer.

Integral to this developing paradigm, is the worldwide installation of 5G, which will be the digital platform that provides the capacity for all of the systems to operate in tandem, a new global operating system. **Without 5G, the Fourth Industrial Revolution, or the Great Reset, is not possible.**

Society is being rapidly driven, without our knowledge or consent, into a completely new way of living, the most radical, transformative societal change to ever take place in recorded history as it is a move towards an authoritarian AI controlled dystopian digital surveillance system.

Terms like ‘*The Great Reset*’, ‘*Build Back Better*’, ‘*The New Normal*’, ‘*Smart Cities*’, ‘*Resilient Cities*’, ‘*Human Augmentation*’ and ‘*Gene Editing*’ are being injected by this institution through the media to plant seeds in the populace’s collective minds, a predictive programming mechanism.

A Quantum Leap into The Fourth Industrial Revolution beckons with the IoT, IoB, AI and other terms associated with this revolution.

Wikipedia says:

*‘**The Fourth Industrial Revolution** (4IR or Industry 4.0) is the ongoing automation of traditional manufacturing, industrial & life practices, using modern smart technology. Large-scale machine to machine communication (M2M) and the internet of things and the internet of bodies (IoT)(IoB) are integrated for increased automation, improved communication and monitoring, and production of smart machines **that can analyze and diagnose issues without the need for human intervention.**’*

Wikipedia says:

*‘The **Internet of Things (IoT)** describes physical objects (or groups of such objects) that are embedded with sensors, processing ability, software, and other technologies, and that connect and exchange data with billions of other devices and systems over the internet or other communications networks. 5G will enable the creation of the “Internet of Things”: not only cars, trucks, and home appliances, but virtually everything we buy will be outfitted with micro-antennas and micro-chips in order to be connected to the wireless cloud that **will take over the business of the world from human beings.** Cars will drive themselves, milk cartons will instruct refrigerators to order milk, and your baby’s nappy will tell your phone when it needs to be changed. By some estimates, as many as one trillion antennas will soon be talking to one another, outnumbering people on the earth by a hundred to one.’*

Forbes says:

*‘When the internet connects with your body, the result is the **Internet of Bodies (IoB).** The Internet of Bodies (IoB) is an extension of the IoT and basically connects the human body to a network through devices that are ingested, implanted, **injected** or connected to the body in some way. Once connected, data can be exchanged, and the body and device can be remotely monitored, modified and controlled.’*

The World Economic Forum adds:

*‘People are becoming more and more connected to devices, and those devices are increasingly becoming connected to their bodies. Devices are not just being worn, but also being **implanted into bodies**, serving communications, location and **behaviour monitoring**, and numerous health functions... Smart tattoos and other unique chips could help with identification and location. Implanted devices will likely also help to communicate thoughts normally expressed verbally through a “built-in” smartphone, and potentially unexpressed thoughts or moods by **reading brainwaves** and other signals.’*

Wikipedia says...

*‘**Artificial intelligence (AI)** is intelligence demonstrated by machines, as opposed to the natural intelligence displayed by animals including humans. Leading AI textbooks define the field as the study of "intelligent agents": any system that perceives its environment and takes actions that maximize its chance of achieving its goals. Some popular accounts use the term "artificial intelligence" to describe machines that mimic "cognitive" functions that humans associate with the human mind, such as "learning" and "problem solving.”*

8.3 Worlds Largest Public Private Merger

The **United Nations**, with 194 national signatories, is the global institution that drives the big treaties and agreements and meets to make the decisions on the worlds biggest issues including war, famine, ‘climate change’etc. It was founded in the ashes of World War 2 in 1945.

In early June 2019 the United Nations Secretary General Antonio Guterres said of the failing ‘**UN Agenda 2030**’:

“It is abundantly clear that a much deeper faster and more ambitious response is needed to unleash the social and economic transformation needed to achieve our 2030 goals”

A week later, on 13 June 2019, the United Nations and the World Economic Forum signed a historic Strategic Partnership. This was signed at a meeting held at the United Nations headquarters in New York between the two top executives to accelerate the implementation of the 2030 Agenda for Sustainable Development.

<https://www.weforum.org/press/2019/06/world-economic-forum-and-un-sign-strategic-partnership-framework>

The agreement granted transnational corporations preferential and deferential access to the UN System at the expense of states and public interest actors. Harris Gleckman, a former UN official and senior fellow at the University of Massachusetts says:

‘This strategic agreement is a coup for the corporate leaders at Davos, but what does it offer the UN and the international community? This gives some of the most controversial corporations unprecedented access to the heart of the UN, yet it has not even been properly discussed by the UN’s country members and certainly not by the broader public.’

<https://www.fian.org/en/press-release/article/wef-takeover-of-un-strongly-condemned-2273>

We now have an aligning of two separate goals (**UN Agenda 2030** and **WEF 2030 Vision**) for 2030 from two global institutions that have signed a strategic partnership agreement. The largest Public Private investment fund in history. The worlds largest corporations now have access to the inner workings of the UN. In effect it is the privatisation of the United Nations in all but words.

Matt Hancock said:

‘The purpose of the World Economic Forum is to bring together world leaders and big business to solve the world’s most difficult problems.’

Mr Hancock is either exhibiting an embarrassing level of naivety, not expected from a senior government minister of the time, or he is blatantly lying, attempting to deceive the electorate.

Benito Mussolini said:

“Fascism should more appropriately be called corporatism, because it is a merger of state and corporate power.”

8.4 WEF Young Global Leaders

Boris Johnson made some startling assertions in an **astonishing 16 minute speech at the United Nations General Assembly in New York on 24 September 2019**. This is a must watch / must read. Some quotes:

‘But no-one can ignore a gathering force that is reshaping the future of every member of this Assembly.’

‘There has been nothing like it in history.’

‘But this technology could also be used to keep every citizen under round-the-clock surveillance.’

‘A future Alexa will pretend to take orders. But this Alexa will be watching you, Clucking her tongue and stamping her foot.’

*‘Digital authoritarianism is not, alas, the stuff of dystopian fantasy but of an **emerging reality**.’*

*‘AI - what will it mean? Helpful robots washing and caring for an ageing population or **pink eyed terminators sent back from the future to cull the human race?**’*

*‘Will nanotechnology help us to beat disease, or will it leave **tiny robots to replicate in the crevices of our cells?**’*

*‘At stake is whether **we bequeath an Orwellian world, designed for censorship, repression and control**, or a world of emancipation, debate and learning, where technology threatens famine and disease, but not our freedoms.’*

*‘Seven decades ago, this General Assembly adopted the Universal Declaration of Human Rights with no dissenting voices, uniting humanity for the first and perhaps only time behind one set of principles. And our declaration - our joint declaration - upholds “freedom of opinion and expression”, the “privacy” of “home or correspondence,” and the right to “seek...and impart information and ideas”. **Unless we ensure that new technology reflects this spirit, I fear that our declaration will mean nothing and no longer hold.**’*

Video: <https://www.youtube.com/watch?v=wKhrReXHBEo>

Transcript: <https://www.gov.uk/government/speeches/pm-speech-to-the-un-general-assembly-24-september-2019>

On 16 October 2017, Matthew Hancock introduced Klaus Schwab at the All-Party Parliamentary Group for the Fourth Industrial Revolution's Autumn Reception illustrating how embedded the government are with these developments. In his introduction he states:

*‘And the nature of the new technologies is that the changes we are experiencing today, are probably the slowest changes we will see over the rest of our lifetimes. **If you don’t much like change, I’m afraid I don’t have so much good news.**’*

‘It will also support projects which explore ways of using 5G technology to address challenges in particular sectors, such as those faced in health and social care.’

‘It’s all about preparing Britain to take advantage of these extraordinary new technologies.’

‘Earlier this year, the ‘Fourth Industrial Revolution’ was not a very well-known term – at least before it became a central topic at the World Economic Forum. It recently made its way into an item on BBC Breakfast television – this shows we’ve probably started to reach critical mass.’

‘It’s a pleasure now to introduce the man who made the Fourth Industrial Revolution a household phrase: Professor Klaus Schwab.’

<https://www.gov.uk/government/speeches/the-4th-industrial-revolution>

Mr Hancock also made a speech at the WEF in Davos on 25 January 2018 in which he stated:

*‘**We are in the midst of fundamental change.**’*

‘Technology is constantly changing how we live, how we work and how we vote and campaign.’

‘Now the task is the next generation of emerging technologies, like the Internet of Things, Artificial Intelligence and Blockchain.’

‘Digital transformation cannot take place with outdated legislation.’

‘The economies that thrive will have innovation friendly regulations for the digital age.’

*‘This is about innovation friendly regulation. **Regulation must support innovation right across the board; this should be a mantra for any Government or regulator.***

<https://www.gov.uk/government/speeches/reimagining-policy-making-for-4ir-closing-speech>

We think Mr Hancock was, once again, a little confused. Whilst the primary purpose of regulation is, and must always remain, to protect people, **NOT** support innovation, these speeches are not isolated and illustrate that this Fourth Industrial Revolution is very salient and its framework is already being enabled by government, who in June 2019 produced a White Paper appropriately entitled ‘Regulation for the Fourth Industrial Revolution.’

<https://www.gov.uk/government/publications/regulation-for-the-fourth-industrial-revolution/regulation-for-the-fourth-industrial-revolution>

Boris Johnson & Matt Hancock both represent the UK government, and are both graduates of the WEF Global Leaders Program.

The ‘Global Leaders of Tomorrow’ was launched by WEF in 1992 and morphed into the ‘Forum for Young Global Leaders’ in 2004. It was a 5 year program of re-education into WEF principles and goals for aspiring young leaders. Mr Schwab was quoted in 2017 as saying:

*‘I have to say when I mention names like Mrs Merkel, even Vladimir Putin and so on they all have been Young Global Leaders of The World Economic Forum. But what we are really proud of now with the young generation like Prime Minister Trudeau, President of Argentina and so on, is that **we penetrate the cabinets.** I was at a reception yesterday for Prime Minister Trudeau and I know that **more than half of his cabinet are from our Young Global Leaders at the World Economic Forum....It is true in Argentina and it is true in France now.***

Have the WEF *‘penetrated’* the UK cabinet with Johnson and Hancock ?

It has steadily grown into an extensive global network of dedicated leaders with almost unlimited resources and influence, all possibly working to implement the technocratic plans of the World Economic Forum and its partners within their respective nations and fields. It seems 2020 was the year they activated their public push towards their (not our) Great Reset.

Their graduates past and present include: [Angela Merkel](#), [Justin Trudeau](#), [Tony Blair](#), [Nicolas Sarkozy](#), [Bono](#), [Bill Gates](#), [Leo Varadkar](#), [Mario Draghi](#), [Xi Jinping](#), [Vladimir Putin](#), [Richard Branson](#), [José Manuel Barroso](#), [Jacinda Arden](#), [Scott Morrison](#), [Emmanuel Macron](#), [Jack Ma](#), [Larry Page](#), [David de Rothschild](#), [Mark Zuckerberg](#), [Sebastian Kurz](#), [Viktor Orbán](#), [Jean-Claude Juncker](#), [Leonardo Di Caprio](#), [Jose Maria Aznar](#), [Michael Portillo](#), [Boris Johnson](#), [Matt Hancock](#), [Rishi Sunak](#), [Sajid Javid](#), [Jeremy Hunt](#), [Priti Patel](#), [Liz Truss](#), [Gordon Brown](#), [Ed Balls](#), [Yvette Cooper](#), [David Cameron](#), [Chuka Umunna](#), [Shami Chakrabarti](#), [Douglas Alexander](#), [Peter Buttigieg](#), [Gavin Newsom](#), [Anthony Fauci](#), [Chelsea Clinton](#), [Jeff Bezos](#), [Tulsi Gabbard](#), [Usula von Leyen](#), [Queen Rania of Jordan](#), [Larry Fink](#), [Neil Ferguson](#) plus many many more have all passed through their ranks.

WEF have their future planned too. Since 2011, they have had their ‘Global Shapers Community.’ A membership of 14,000 young leaders, ‘embedded’ on the fringes of civil society in 456 cities, in 156 countries worldwide, all organically extolling WEF ambitions.

<https://www.weforum.org/agenda/2021/11/by-youth-for-youth-celebrating-a-decade-of-action/>

Recently, former prime minister and former young global leader graduate Tony Blair and his institute said on their twitter page:

‘Our teams are now embedded in governments around the world, helping them to keep their people safe during this pandemic - not just in respect of Covid-19 itself but also the political and economic collateral damage.’

It would be very surprising if any governments employed the wisdom of the Tony Blair Institute for Change, given his history. It is much more likely, given their reach and influence that the ‘[team](#)’ he was referring to was in fact the World Economic Forum and their Young Global Leaders ‘team’.

Are World Economic Forum global leaders ‘[embedded](#)’ in governments all over the world, including the UK ?

8.5 Build Back Better

Over 2020-2021 nearly all governments began speaking with one voice and seemingly reading from one script. ‘[Build Back Better](#)’. The implication being that Covid has broken the world, and that they are going to rebuild everything differently and better. More recently called ‘Levelling Up.’ They see the pandemic as providing them with their opportunity to implement their pre-planned Fourth Industrial Revolution or Great Reset. Preparing the worlds 7.9 billion people for great change after the perfectly timed pandemic.

The leaders who publicly called for ‘Building Back Better’ and into their ‘New Normal’ read like a who’s who of the World Economic Forums Young Global Leaders and include: [Tony Blair](#), Prince Charles, [Prince Harry](#), Boris Johnson, [Keir Starmer](#), Layla Moran, [Joe Biden](#), Kamala Harris, [Jacinda Arden](#), Caroline Lucas, [Emmanuel Macron](#), Angela Merkel, [Bill and Hilary Clinton](#), Bill Gates, [Barack Obama](#), Elizabeth Warren, [Nancy Pelosi](#), Justin Trudeau, [Pope Francis](#), UN’s Antonio Gutierrez, IMF’s [Kristalina Georgieva](#) , Greta Thunberg, [Sadiq Khan](#), Andrew Cuomo plus many more...

Jeremy Farrar of the Wellcome Group, a WEF partner and closely associated with Klaus Schwab, is also a member of SAGE, who advocated for the recent disastrous lockdown policy, coincidentally the very same policy recommended by the WEF.

The reach of this organisation is astounding.

8.6 WEF quotes

A few of Mr Schwab’s quotes:

“The world must act jointly and swiftly to revamp all aspects of our societies and economies, from education to social contracts and working conditions. We must build entirely new foundations for our economic and social systems.”

“To build back better we must re-invent capitalism.”

“The fourth industrial revolution will affect the very essence of our human experience.”

“At the end of what the fourth industrial revolution will lead to is a fusion of our physical our digital and our biological identities.”

*“Now is the historical moment, the time not only to fight the virus, but to **shape the system.**”*

WEF Promotional video:

“The very idea of humans being some sort of natural concept is really going to change. Our bodies will be so high tech, we wont be able to really distinguish between whats natural and whats artificial.”

Dr Yuval Noah Harari, author of 'Sapiens, A Brief History of Humankind' and a top advisor to the WEF, gave keynote speeches on the future of humanity in Davos 2018 and 2020, on the World Economic Forum's main Congress Hall stage. He regularly discusses global issues with heads of state and has had public conversations with Austrian Chancellor Sebastian Kurz, Dutch Prime Minister Mark Rutte, and Greek Prime Minister Kyriakos Mitsotakis. Harari has also met with French President Emmanuel Macron, German Chancellor Angela Merkel of Germany, Argentine President Mauricio Macri, German President Frank-Walter Steinmeier, and Shanghai's Mayor Ying Yong. In 2019, Harari sat down for a filmed discussion on technology and the future of society with Facebook's CEO Mark Zuckerberg, and in 2018 he presented the first ever TED talk delivered by a digital avatar. **Some gems from a selection of his terrifying speeches:**

"Dictators always dreamt about completely eliminating privacy, monitoring everybody all the time and knowing everything you do, and not just everything you do, but even everything you think and everything you feel... They could never do it because it was technically impossible; now it's possible."

"In Davos we hear so much about the enormous promises of technology – and these promises are certainly real. But technology might also disrupt human society and the very meaning of human life in numerous ways, ranging from the creation of a global useless class to the rise of data colonialism and of digital dictatorships."

"Technology risks dividing the world into wealthy elites and exploited data colonies."

"Old jobs will disappear, new jobs will emerge, but then the new jobs will rapidly change and vanish. Whereas in the past humans had to struggle against exploitation, in the twenty-first century the really big struggle will be against irrelevance. And it is much worse to be irrelevant than exploited."

"Those who fail in the struggle against irrelevance would constitute a new "useless class" – people who are useless not from the viewpoint of their friends and family, but useless from the viewpoint of the economic and political system. And this useless class will be separated by an ever-growing gap from the ever more powerful elite."

"The AI revolution might create unprecedented inequality not just between classes but also between countries."

"Data might enable human elites to do something even more radical than just build digital dictatorships. By hacking organisms, elites may gain the power to re engineer the future of life itself, because once you can hack something, you can also engineer it."

"Now in the past many tyrants and governments wanted to do it, but nobody understood biology well enough and nobody had enough computing power and data to hack millions of people. Neither the Gestapo or the KGB could do it, but soon at least some corporations and governments will be able to systematically hack all the people."

"We humans should get used to the idea that we are no longer mysterious souls – we are now hackable animals. That's what we are."

"If indeed we succeed in hacking and engineering life, this will be not just the greatest revolution in the history of humanity, this will be the greatest revolution in biology since the very beginning of life 4 billion years ago. For 4 billion years nothing fundamental changed. Science is replacing evolution by natural selection with evolution by intelligent design. Not the intelligent design of some God above the clouds, but our intelligent design, and the intelligent design of our clouds, the IBM cloud, the Microsoft cloud. These are the new driving forces of evolution."

"Today we have technology to hack human beings on a massive scale. In this time of crisis we have to follow science. Its often said you should never allow a crisis to go to waste."

"People could look back in a hundred years and identify the coronavirus epidemic as the moment when a new regime of surveillance took over, especially surveillance under the skin."

“My brain, my body, my life, does it belong to me or to some corporation or to the government or perhaps to the human collective.”

“And what will happen to politics in your country in twenty years, when somebody in San Francisco or Beijing knows the entire medical and personal history of every politician, every judge and every journalist in your country, including all their sexual escapades, all their mental weaknesses and all their corrupt dealings? Will it still be an independent country or will it become a data-colony?”

“When you have enough data you don't need to send soldiers, in order to control a country.”

“Now if we indeed prevent the establishment of digital dictatorships, the ability to hack humans might still undermine the very meaning of human freedom. Because as humans will rely on AI to make more and more decisions for us, authority will shift from humans to algorithms and this is already happening.”

“Already today billions of people trust the Facebook algorithm to tell us what is new, the Google algorithm tells us what is true, Netflix tells us what to watch, and the Amazon and Alibaba algorithms tell us what to buy.”

“In the not-so-distant future, similar algorithms might tell us where to work and who to marry, and also decide whether to hire us for a job, whether to give us a loan, and whether the central bank should raise the interest rate.”

“Immature and even dangerous technologies are pressed into service, because the risks of doing nothing are bigger. Entire countries serve as guinea-pigs in large-scale social experiments. In normal times, governments, businesses and educational boards would never agree to conduct such experiments. But these aren't normal times.”

“In this time of crisis, we face two particularly important choices. The first is between totalitarian surveillance and citizen empowerment. The second is between nationalist isolation and global solidarity.”

“In order to stop the epidemic, entire populations need to comply with certain guidelines. There are two main ways of achieving this. One method is for the government to monitor people, and punish those who break the rules. Today, for the first time in human history, technology makes it possible to monitor everyone all the time.”

“In the coming generations we will learn how to engineer bodies and brains and minds. This will be the main products of the economy of the 21st century, not textiles and vehicles and weapons, but bodies and brains and minds.”

“Now, how exactly will the future masters of the planet look like, this will be decided by the people who own the data – those who control the data control the future, not just of humanity but the future of life itself, because today's data is the most important asset in the world.”

“The twin revolutions of infotech and biotech are now giving politicians the means to create heaven or hell, but the philosophers are having trouble conceptualizing what the new heaven and the new hell will look like. And that's a very dangerous situation. If we fail to conceptualize the new heaven quickly enough, we might be easily misled by naïve utopias. And if we fail to conceptualize the new hell quickly enough, we might find ourselves entrapped there with no way out.”

“Humans are hackable animals. The whole idea that humans have this ‘soul’ or ‘spirit’, and nobody knows what's happening inside them, and they have freewill – that's over.”

.....and our particular favourite:

“The big political and economic question of the 21st Century will be 'What do we need humans for?' or at least 'What do we need so many humans for?' At present, best guess is to keep them happy with drugs and computer games”

Are these the words of someone who should be given such a prestigious global platform attended by global

policymakers ? These are the words of a mad deranged scientist and not those of a top advisor to the WEF. Anyone with 10 minutes to spare on the internet can connect Dr Hariri and these quotes with UK government policy making processes.

Why has the terrifying Fourth Industrial Revolution evaded media coverage when it will so profoundly affect everyone? Do the 326,213 people of Wirral and the 68,490,879 people of the UK know about these plans and what is being done in their name, how it will negatively transform their lives and is being funded by their taxes?

Why is government, the media, and locally Wirral Council, the Mayor, our 4 Members of Parliament for Wirral and Merseyside Police, who should all be aware of these developments, not informing us of these impending seismic changes to all of our lives?

These very real developments require new technologies and massively increased power and frequency thresholds to support them. **5G is the operational platform that these new developments need to function.** Our government and councils, knowingly or unknowingly, are pursuing these policy objectives in the shadows and with very little oversight or discussion in parliament or the media. At the very least, they are allowing them to pass. Hence why the general population, Wirrals in particular, are completely unaware of these huge changes afoot.

There has been small signs of an awakening to this takeover, in the Australian Senate and the Canadian Parliament, where Senator Alex Antic & Conservative MP Colin Carrie both mentioned the malign influence of the WEF on our democratic institutions.

<https://westernstandardonline.com/2022/04/watch-australian-senator-voices-concern-over-wef-agenda/>

<https://www.louderwithcrowder.com/canadian-silenced-asking-about-wef>

Not only is 5G and wireless radiation catastrophically damaging to biological health and the environment, the ‘Reset’ world it will usher in for everyone is that of a science fiction nightmare.

It is extremely plausible that what we are presently experiencing is a global coup by stealth. A long planned takeover of the world with a long planned agenda, in which the quiet installation of 5G is integral to almost every aspect of the new system. By selling the public on quicker film downloads, there is almost no resistance to 5G’s deployment.

9.0 YOU WOULDN'T BE THE FIRST

There is a growing global awareness among policymakers of the hidden dangers of 5G.

Presently at least 14 local authorities in the UK, including Glastonbury, Frome, Shepton Mallet and Wells, have suspended the further roll out of 5G technology, citing the Precautionary Principle, until independent safety studies verify that it poses no threat to the local populations.

Below are a few replies from our enquiries on this matter. We have also provided the link to the documentation submitted by Glastonbury Council.

“Shepton Mallet Town Council has a moral responsibility to protect public health and the local environment. Until there is more independent and disinterested scientific consensus that 5G wireless radiation is harmless to humans and the environment, Shepton Mallet Town Council adopts the precautionary principle and will not endorse the roll out of 5G.”

“Wells City Council Precautionary Principle. ‘This Council has a responsibility to protect the public and environment from exposure to harm, albeit unpredictable in the current state of scientific knowledge, and therefore opposes the roll-out of 5G in the Parish of Wells City Council – based on the precautionary principle – until further information is revealed The Precautionary Principle was proposed, seconded and adopted.’”

‘Glastonbury Council 5G Report. Following six months of investigation, Glastonbury Town Council has resolved unanimously to adopt the recommendations of their ‘5G Advisory Committee’, which was set up in 2019 to explore the safety of 5G technology.

The recommendations include:

- writing to MPs asking them to establish an inquiry into the safety of 5G;*
- calling for the UK Government and Public Health England to undertake an independent scientific study into: The non-thermal effects of 5G, and Electromagnetic Hypersensitivity;*
- and lobbying the International Commission on Non-Ionizing Radiation Protection (ICNIRP) to take into account the non-thermal effects of radiofrequency EMFs in their Guidelines on Limiting Exposure to Electromagnetic Fields.*

In addition to the recommendations, Glastonbury Town Council resolved unanimously to continue their adoption of the Precautionary Principle; opposing the roll-out of 5G until further information is made available on the safety or otherwise of the technology.

“The Town Council is greatly indebted to the members of the 5G Advisory Committee, who have met regularly; collected and studied a large volume of literature – and received presentations from a number of academics and professionals, including the Director of Mobile UK, the organisation overseeing the roll-out of 5G in the UK.

As chair of the advisory committee, I have been impressed by the number of councils and local authorities who have been in contact; requesting copies of the committee’s report and recommendations... However, I must stress that a Town Council, such as Glastonbury, has absolutely no power to stop the roll-out of 5G,

which is why it is so important to bring our report to the attention of MPs, the Government, Public Health England, and the International Commission on Non-Ionizing Radiation Protection.”

Cllr. Jon Cousins, Deputy Mayor of Glastonbury, and Chair of the 5G Advisory Committee.’

The following link will take you to the report

<https://glastonbury.gov.uk/5g-report/>

This Glastonbury report was subject to an amateur attempt from the BBC to undermine its legitimacy. We think the report and subsequent quotes from the deputy mayor reflect more on the BBC than the report.

<https://www.bbc.co.uk/news/technology-52674949>

Hundreds of towns, cities and countries worldwide have banned, partially banned or slowed down the 5G roll out.

Overseas examples are [Rome](#), Geneva, [Brussels](#), Florence, [California](#), Bavaria, [councils in Bulgaria](#), New Zealand, [Greece](#), Croatia, [Cyprus](#), Ukraine, [Hawaii](#), USA and [469 municipalities in Italy](#).

Countries include Austria, [Nigeria](#), Russia, [Bangladesh](#), Papua New Guinea, [Netherlands](#), Pakistan, [Switzerland](#), Slovenia and [France](#).

Some of those may have since updated their status, but when we checked with Glastonbury in October 2021, they still had no 5G towers in Glastonbury and were refusing to accede to the commercial and political pressures being exerted upon them.

In January 2015, the French parliament adopted a comprehensive law that protects the general public from excessive exposure to electromagnetic waves. Amongst other things, the legislation banned Wi-Fi in nurseries for children under three years old. It also requires primary schools teaching children under 11 to only turn Wi-Fi on when it is being used for specific lessons.

Below is a public letter from the mayor in Bad Wiessee, Upper Bavaria in Germany.

‘Dear Residents and Visitors of Bad Wiessee,

Bad Wiessee has a long-established reputation as a popular destination for health and well-being and this informs the present and future decision-making of the Council. Many of our visitors come here seeking medical treatments, physical rehabilitation or simply to improve their well-being and most, if not all, of our town’s prosperity depends on providing such services.

As such, the Council takes its responsibilities in protecting and promoting health tourism very seriously.

*At a public meeting, the Council **unanimously decided to oppose the rollout of the untested 5G network**. The Council felt a great sense of responsibility towards both residents and visitors in taking this decision, given the significance of Bad Wiessee as a health destination.*

5G offers many things that are attractive to people who love technology, such as time-saving automation, autonomous vehicles, ubiquitous smart homes, real time data-transfer, and the Internet of Things, to name but a few.

But 5G also means increasing the number of cell towers in Germany from 90,000 to 750,000; launching approximately 12,000 5G satellites into space; increasing public exposure to microwave radiation from around 2.5 GHz currently to 200 GHz; seeing potential liability claims against owners of cell-tower locations; chopping down trees on a large scale (to ensure good transmission); as well as irradiating plants and animals. Above all, there is uncertainty about whether 5G can be considered safe in terms of public health.

This is a very serious matter and, until such uncertainty is adequately clarified, the precautionary principle must be applied.

*Not only the residents and visitors of Bad Wiessee, but also **future generations are entitled to expect their Council representatives to exercise their duty of care.***

The Council's responsibility is all the greater given that the character and spirit of Bad Wiessee is defined in terms of health and well-being. The Council's decision with regard to 5G was taken after serious deliberation, which showed that all the Council representatives recognized its importance.

***This decision is not intended to restrict progress, but solely to examine critically the price we pay for such progress.** If you are interested in the topic of 5G, I would ask you to inform yourself about it in order to form your own opinion.*

Very sincerely from your Town Mayor,

Peter Höß.'

Our elected officials could choose to take a lead from his courageous, public spirited, educated, diligent, unselfish and principled stand.

If officials in the above examples can reach these decisions, why do our elected officials reach different decisions if they are based on the same technology and evidence?

Is the technology rolling out in Glastonbury and Bavaria any different from that being installed in Birkenhead?

Is our 5G technology in Wirral safe and that of Bavaria not safe?

We are begging you to urgently pause this deployment and extensively research this subject, before doing your job properly and acting in the public interest and not private interests.

10.0 WIRRAL 5G STUDY

This section illustrates just how extensively embedded 5G has already become in Wirral, without any local, national or international safety testing. You can now see the accumulated geographic and photographic data, alongside the measurements of non-ionising radiation to which we are all now being subjected to for 24 hours every day.

10.1 Study Overview

We present a localised, non-academic study on the new Fifth Generation of ‘Telecommunications’ Equipment being installed all around Wirral and the Electro Magnetic Frequencies being authorised by the government through OFCOM for the industry to use in conjunction with this new hardware.

The study has been conducted by a group of Wirral residents who are extremely concerned about this development and the health and environmental impact.

The study dates were 23 March 2021 – 28 November 2021, roughly 8 months.

We have surveyed Wirral from tip to tip, Hoylake across to New Brighton & and North Neston across to Eastham. This is an area of approximately 70 square miles, in which we have so far located 140 masts.

The study is by no means exhaustive. All 140 masts covered have been seen from Wirral’s roads or from taking Mersey trains. Many will have been missed or are going up concurrently. We have not checked all countryside, industrial estates, motorways, parks, golf courses, farms, promenades & coastlines where many more are probably located.

All 140 masts were located by eye & photographed.

All masts have been marked with red spots on our map of the Wirral.

We have then divided Wirral up into 7 grids to make it easier to locate the more precise location of these masts.

The approx. scale of the Wirral map is 1.5 cm scaling up to a mile, or 1cm to a km.

The approx. scale of the 7 localised grid maps are 8cm scaling up to a mile, or 5cm to a km.

As it was difficult to have a standardised distance for measuring radiation levels from the masts due to the many different locations, they were measured from a convenient distance that could be obtained. If they were on top of a block of flats, then the distance of the measurement will be significantly further than from a free standing mast on the main thoroughfare. We have tried to keep distances as standard as possible where possible.

The dates on which the measurements were taken vary as the study, despite its urgency, has been conducted whilst its measurer’s have had work and family commitments.

We cannot confirm whether all of the listed masts are 2G, 3G, 4G, 5G, or indeed any G, as in Liscard Police Station, although it was emitting the same RF levels as many of the masts. However, we believe it to be the case that most of the masts surveyed are likely to at least be 5G ready, in that they have now been upgraded.

Each masts frequencies & power emissions were then measured using a TriField EMF Meter Model TF2 with full battery content.

The TriField Meter has the capability to measure Non-Ionising Radiation in the form of Electro Magnetic Wave Frequencies up to a maximum of 20 milli-watts per squared metre (20 mW/m²) on the Radio Frequency setting

& DC Electrical Fields up to a maximum of 1000 Volts per metre (1000 V/m) on the Voltage setting. Where the measurement is listed as **+20.00**, this means that we cannot accurately measure how much over 20.00 the actual level of non-ionising radiation is.

Where possible we have measured the masts twice.

We have highlighted in **RED** those measurements that breach the 2012 Bio-Initiative Report Safety Guidelines.

We have chosen to **ignore the 1998 ICNIRP Guidelines** as we believe them to be obsolete, industry compromised, irrelevant & very dangerous.

Just a reminder from chapter 7 of the recommended exposure limits for radiation, in order to understand what Wirrals masts are emitting.

According to the independently researched **Bio-Initiative Report Guidelines**:

- Radio Frequency Non Ionising Radiation becomes concerning at 0.006 mW/m². Examples of harm from within the report show RFR induces pathological leakage of the blood brain barrier (Persson 1997) & affects immune function (Novoselova 1999) at **10 mW/m²**.

According to the independently researched **Building Biology Evaluation Guidelines**:

- Electric Fields become **extremely** concerning at **50-64 V/m**.

According to the industry compromised **ICNIRP Guidelines** that have been used by the UK government to justify the 5G rollout:

- Radio Frequency Non Ionising Radiation becomes concerning at **9,000 mW/m²**.

- Electric Fields become concerning at **5000 V/m**.

10.2 WIRRAL GEOGRAPHY AND POPULATION

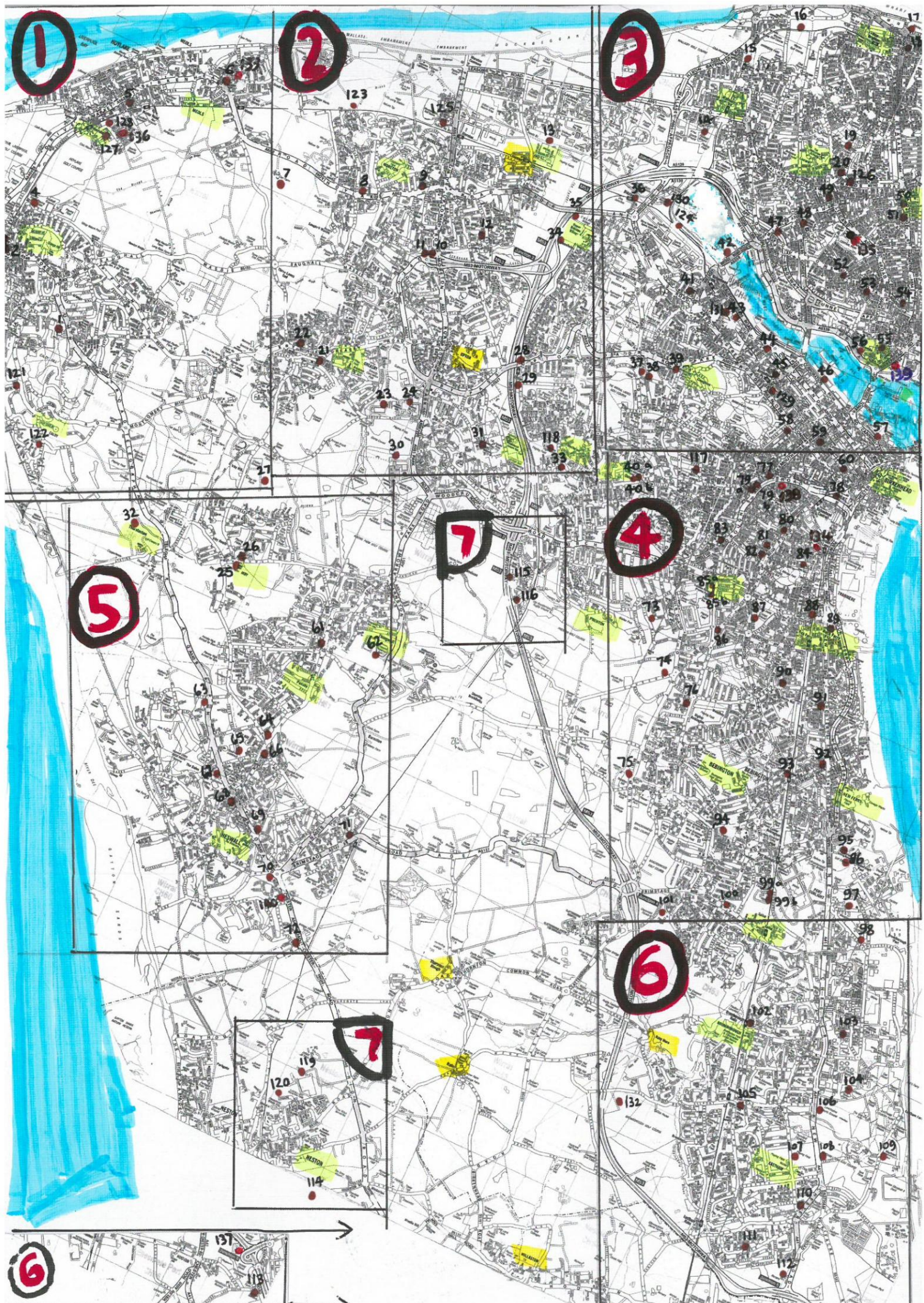
Wirral is a peninsula nestled between Liverpool and North Wales and connected to the mainland by Cheshire. The rectangular peninsula is about 15 miles (24 km) long and 7 miles (11 km) wide and is bounded by the River Dee to the West, forming the boundary with Wales, and the River Mersey to the East, forming the boundary with Liverpool, with the Irish Sea to the North. The area we have covered is approximately 70 square miles, 10 miles long from the Irish Sea tip by the full 7 miles wide.

The Metropolitan Borough of Wirral had an official population of 326,213 in 2017 that will all potentially be negatively affected by this new untested technology.

Area of Wirral	Approx. Population
Bebington, Spital & Clatterbridge	30,010
Bidston	15,510
Birkenhead & Noctorum	17,510
Bromborough	15,592
Claughton	15,480
Eastham	14,053
Greasby & Irby	14,018
Heswall & Neston	13,514
Hoylake & Meols	13,427
Liscard	15,311
Moreton & Leasowe	28,818
New Brighton	15,368
Oxton	14,342
Pensby & Thingwall	13,102
Prenton	14,396
Rock Ferry, Tranmere & New Ferry	14,443
Seacombe & Egremont	16,333
Upton & Woodchurch	14,443
Wallasey	15,204
West Kirby, Caldy & Thurstaston	13,163

10.3 FULL NUMBERED INDEX OF MASTS

1. West Kirby, Column Road	71. Heswall, Acre Lane Shops
2. West Kirby, Train Station	72. Heswall, Boathouse Lane
3. West Kirby, The Wro Roof	73. Prenton, Reservoir Road
4. West Kirby, Greenbank Road	74. Bebington, Levers Causeway
5. Hoylake, Market Street behind Fish Shop	75. Bebington, Mount Road, Bromleigh Close
6. Meols, Railway Inn	76. Bebington, The Broadway
7. Meols, Carr Farm	77. Birkenhead, Oxtan Road, Heliya Cafe roof
8. Moreton, Tesco Millhouse Lane	78. Birkenhead Tunnel Entrance CCo. Roof
9. Moreton, Hoylake Road	79. Birkenhead, Borough Road / Balls Road
10. Moreton Spur, Motorway Slip, Small	80. Birkenhead, Victoria Road
11. Moreton Spur, Motorway Slip, Large	81. Birkenhead, St Catherines Hospital
12. Moreton, Cherrytree Flats	82. Birkenhead, St Catherines Hospital
13. Leasowe, Merseycare Depot	83. Birkenhead, Borough Rd Singleton Bus Stop
14. Wallasey, Rugby Club.	84. Rock Ferry, Sidney Rd
15. Wallasey, Windsors Car Sales	85. Prenton, Tranmere Rovers Football Club (x2)
16. New Brighton, Trainline by Dips	86. Prenton, The Wiend
17. New Brighton, Parade	87. Rock Ferry, Bebington Road Flats
18. New Brighton, Rowson Street Church	88. Rock Ferry, St Pauls Road.
19. Liscard, Rake Lane Cricket Club	89. Rock Ferry, Woburn Place
20. Liscard, Kenwyn Road/Egerton Grove	90. Rock Ferry, Rock Lane West
21. Greasby, Shops	91. Rock Ferry, Knowsley Road Flats
22. Greasby, Red Cat	92. New Ferry, behind John Masefield Pub
23. Greasby, Arrowe Brook Road	93. Bebington, Train Station
24. Upton, Big Padlock Warehouse	94. Bebington, Heath Road Bus Stop
25. Irby, Shippons Pub	95. New Ferry, New Build off A41 nr William Burton Pl
26. Irby Village, Bus Stop	96. New Ferry, New Build off A41 nr White Bridge Rd
27. Irby, Cricket Club	97. Bromborough, Fire Station
28. Upton, Flyover	98. Bromborough, Causeway
29. Upton, Upton Station, Coop Car Park	99. Bromborough Road, under Railway bridge (x2)
30. Woodchurch, Arrowe Park Hospital	100. Spital, Three Stags Pub
31. Woodchurch, New Hey Road Flats	101. Clatterbridge Road Farm
32. Thurstaston. Nr Dawpool Cottages	102. Bromborough, Rake Train Station
33. Noctorum Way	103. Bromborough, Thursby Road
34. M53 Jct 2, overlooking Beechwood Estate	104. Eastham, Old Hall Rd Industrial Est off A41
35. Bidston, M53 Flyover	105. Eastham, Allport Rd, Plymyard Rd
36. Bidston, Train Station	106. Eastham, Woodyear Rd on A41
37. Bidston, Boundary Road	107. Eastham, Bridle Road (x2)
38. Bidston, Ashburton Road	108. Eastham, Lodge Golf Club (x2)
39. Claughton Village	109. Eastham, Ferry Road
40. Oxtan, Cricket Ground, Townfield Lane (x2)	110. Eastham, Bridle Road on A41
41. Birkenhead North, Asda	111. Eastham, Mill Park Drive
42. Bidston, Tip	112. Eastham, M53 Junction 5 on A41 Nursery
43. Birkenhead, Beaufort Road	113. Eastham, Rivacre Road
44. Birkenhead, Corporation Road Police Custody Suite	114. Neston, Hinderton Road British Legion
45. Birkenhead, Price Street Flats	115. Prenton, Industrial Estate Total Fitness
46. Birkenhead, Corporation Rd Livingstone Rd	116. Prenton, Industrial Estate Scottish Power
47. Wallasey, Mill Lane over M53	117. Oxtan, Shrewsbury Road, Palm Grove
48. Liscard, Fire Stn Mill Lane	118. Noctorum, Ridgeway School
49. Liscard, Cherrytree Flats, Cherrytree Centre	119. Neston. Clayhill Light Industrial Estate
50. Egremont, Greenwood Lane	120. Neston. Longacre Road
51. Egremont, Esso Station	121. Caldy. Melloncroft Drive
52. Seacombe, Poulton Road, The Grove Bus Stop	122. Caldy. Barton Hey Drive
53. Seacombe, Poulton Rd, York Rd	123. Moreton, Merseyrail. Millhouse
54. Seacombe, Borough Road	124. Bidston, Merseyrail. Tesco
55. Seacombe, Kelvinside/Wheatland Lane	125. Moreton. Tarran Way Industrial Estate
56. Seacombe, East Float Quay opp Tate Lyle Bldg	126. Liscard. Manor Road Police Station
57. Birkenhead, Woodside Sewage Works	127. Hoylake. Carr Lane and Carham Road
58. Birkenhead, Furniture World Park Road East.	128. Hoylake. Carr Lane, Scottish Power
59. Birkenhead, Beckwith St Price St Flats	129. Birkenhead Park Merseyrail Station
60. Birkenhead, Lorn Street	130. Birkenhead, Merseyrail New Brighton Line Split
61. Pensby, Pensby Road, Shops	131. Birkenhead. Lincoln Street
62. Thingwall Reservoir	132. Bromborough. Nr Raby Hall Road
63. Heswall, Mere Lane	133. Meols. Park Road, nr Park
64. Pensby, Pensby Road Sainsburys	134. Tranmere. Old Chester Road
65. Heswall, Poll Hill Road Public Path	135. Liscard. Liscard Road
66. Pensby, Pensby Road, Harvest Mount Pub	136. Hoylake. Carr Lane
67. Heswall, Flats next to Tesco	137. Eastham, M53 Jct 6, Welby Road
68. Heswall, Crossroads Fire Station	138. Birkenhead. Borough Road, nr Tunnel
69. Heswall, Telegraph Road Church	139. Seacombe. Birkenhead Road
70. Heswall, Shell Roundabout	140. Heswall, Chester Road, Gayton Road



10.4 MAP 1	
Map Reference	Location
1	West Kirby, Column Road
2	West Kirby, Train Station
3	West Kirby, The Wro Roof
4	West Kirby, Greenbank Road
5	Hoylake, Market Street behind Fish Shop
6	Meols, Railway Inn
27	Irby, Cricket Club
121	Caldy, Melloncroft Drive
122	Caldy, Barton Hey Drive
127	Hoylake, Carr Lane, Carham Road
128	Hoylake, Carr Lane, Scottish Power
133	Meols, Park Road, nr Park
136	Hoylake, Carshalton Road, Carr Lane

Total 13





1

West Kirby

Column Road, United Utilities

User unknown

Distance 20 metres

23 March 2021

10.40am

0 - **18.34** mW/m²

0 - **46** V/m

1 Oct 2021

2.55pm

0 - **20.00+** mW/m²

0 - **117** V/m



2

West Kirby

Grange Road, Train Station

User **Orange**

Distance 10 metres

21 April 2021

3.15pm

0 - **19.8** mW/m²

0 - **57** V/m

1 Oct 2021

1.15pm

0 - **20.00+** mW/m²

0 - **6** V/m



3

West Kirby

Grange Road, The Wro

User unknown

Distance 20 metres

21 April 2021

3.20pm

0 - **18.9** mW/m²

0 - **106** V/m

4 Sept 2021

2.10pm

0 - **20.00+** mW/m²

0 - **35** V/m



4

West Kirby

Greenbank Road

User **EE / 3G Hutchison UK**

Distance 10 metres

23 March 2021

10.40am

0 - **16.9** mW/m²

0 - **404** V/m

8 Oct 2021

9.20am

0 - **20.00+** mW/m²

0 - **11** V/m



5

Hoylake

Market Street, by Co-op

User **Vodafone**

Distance 5 metres

23 March 2021

11.10am

0 - 7.54 mW/m²

0 - 52 V/m

1 Oct 2021

1.50pm

0 - 20.00+ mW/m²

0 - 6 V/m



6

Meols

Birkenhead Road, Railway Inn

User **Vodafone**

Distance 5 metres

23 March 2021

11.20am

0 - 14.50 mW/m²

0 - 14 V/m

1 Oct 2021

1.55pm

0 - 20.00+ mW/m²

0 - 24 V/m



27

Irby

Mill Hill Road, Irby Cricket Club

User unknown

Distance 40 metres

20 May 2021

10.15am

0 - 9.87 mW/m²

0 V/m

4 Sept 2021

10.35am

0 - 4.55 mW/m²

0 – 3 V/m



121

Caldy

Melloncroft Drive

User **Vodafone**

Distance 5 metres

2 June 2021

5.20pm

0 - 20.00+ mW/m²

0 – 7 V/m

13 Oct 2021

9.00am

0 – 12.98 mW/m²

0 – 65 V/m



122

Caldy

Barton Hey Drive

User **Orange**

Distance 5 metres

2 June 2021

5.30pm

0 - **20.00+** mW/m²

0 – 50 V/m

13 Oct 2021

9.08am

0 - **20.00+** mW/m²

0 – **98** V/m



127

Hoylake

Carr Lane / Carham Road

User **Vodafone**

Distance 20 metres

22 July 2021

10.55am

0 - **9.94** mW/m²

0 – 34 V/m

1 Oct 2021

1.40pm

0 - **20.00+** mW/m²

0 – **313** V/m



128

Hoylake

Carr Lane, Scottish Power

User unknown

Distance 20 metres

22 July 2021

11.00am

0 - 7.78 mW/m²

0 - 3 V/m

1 Oct 2021

1.45pm

0 - 14.47 mW/m²

0 - 3 V/m



133

Meols

Park Road

User **Orange**

Distance 10 metres

31 July 2021

2.00pm

0 - 20.00+ mW/m²

0 - 7 V/m

4 Sept 2021

1.35pm

0 - 20.00+ mW/m²

0 - 16 V/m



136

Hoylake

Carterton Road

User unknown

Distance 10 metres

22 July 2021

11.00am

0 – 20.00+ mW/m²

0 – 7 V/m

5 Oct 2021

1.30pm

0 – 17.92 mW/m²

0 – 6 V/m

10.5 MAP 2	
Map Reference	Location
7	Meols, Carr Farm
8	Moreton, Tesco Millhouse Lane
9	Moreton, Hoylake Road
10	Moreton Spur, Motorway Slip, Small
11	Moreton Spur, Motorway Slip, Large
12	Moreton, Cherrytree Flats
13	Leasowe, Merseycare Depot
21	Greasby, Shops
22	Greasby, Red Cat
23	Greasby, Arrowe Brook Road
24	Upton, Big Padlock Warehouse
28	Upton, Flyover
29	Upton, Upton Station, Coop Car Park
30	Woodchurch, Arrowe Park Hospital
31	Woodchurch, New Hey Road Flats
33	Noctorum Way
34	M53 Jct 2, overlooking Beechwood Estate
35	Bidston, M53 Flyover
118	Noctorum, Ridgeway School
123	Moreton, Merseyrail. Millhouse
125	Moreton, Tarran Way Industrial Estate

Total 21



2



7

Meols

Birkenhead Road, Carr Farm

User unknown

Distance 40 metres

21 April 2021

3.40pm

0 - 16.78 mW/m²

0 – 3 V/m

4 Sept 2021

1.30pm

0 - 13.7 mW/m²

0 – 6 V/m



8

Moreton

Millhouse Lane, Tesco

User **Vodafone**

Distance 5 metres

23 March 2021

11.35am

0 - 13.75 mW/m²

0 – 61 V/m

4 Sept 2021

1.25pm

0 - 16.18 mW/m²

0 – 13 V/m



9

Moreton

Hoylake Road

User **T Mobile UK**

Distance 5 metres

23 March 2021

11.40am

0 - **19.24** mW/m²

0 - **87** V/m

3 Sept 2021

12.10pm

0 - **20.00+** mW/m²

0 - 20 V/m



10

Moreton

Moreton Spur, Motorway
(Small)

User **3G Hutchison UK**

Distance 5 metres

21 April 2021

3.55pm

0 - **12.9** mW/m²

0 - **139** V/m

1 Oct 2021

2.25pm

0 - **20.00+** mW/m²

0 - 59 V/m



11

Moreton

Moreton Spur, Motorway (Large)

User **Vodafone**

Distance 5 metres

21 April 2021

4.00pm

0 - 9.6 mW/m²

0 - 98 V/m

1 Oct 2021

2.30pm

0 - 20.00+ mW/m²

0 - 45 V/m



12

Moreton

Stavordale Road, Flats

User unknown

Distance 40 metres

24 May 2021

12.15pm

0 - 6.37 mW/m²

0 V/m

12 Oct 2021

2.30pm

0 - 5.59 mW/m²

0 V/m



13

Leasowe

Reeds Lane, MerseyCare Depot

User unknown

Distance 5 metres

23 March 2021

12.01pm

0 - **20.00+** mW/m²

0 - **133** V/m

12 Oct 2021

2.20pm

0 - **20.00+** mW/m²

0 - **79** V/m



21

Greasby

Greasby Road Shops

User **Vodafone**

Distance 5 metres

23 March 2021

10.15am

0 - **19.47** mW/m²

0 - **8** V/m

4 Sept 2021

2.30pm

0 - **16.6** mW/m²

0 - **14** V/m



22

Greasby

Frankby Road, Red Cat Pub

User **EE / Hutchison 3G UK**

Distance 5 metres

23 March 2021

10.20am

0 - 16.2 mW/m²

0 - 40 V/m

4 Sept 2021

2.35pm

0 - 20.00+ mW/m²

0 - 68 V/m



23

Greasby

Arrowe Brook Rd, Housing Estate

User **T Mobile**

Distance 10 metres

23 March 2021

3.05pm

0 - 19.98 mW/m²

0 - 134 V/m

5 Oct 2021

3.00pm

0 - 7.5 mW/m²

0 - 24 V/m



24

Upton

Arrowe Brook Road, Big Padlock

User unknown

Distance 20 metres

24 May 2021

12.25pm

0 - **20.00+** mW/m²

0 - **33** V/m

6 Oct 2021

3.35pm

0 - **20.00+** mW/m²

0 - **70** V/m



28

Upton

Upton Bypass

User **Vodafone**

Distance 5 metres

21 April 2021

4.20pm

0 - **18.97** mW/m²

0 - **115** V/m

12 Oct 2021

2.00pm

0 - **20.00+** mW/m²

0 - **22** V/m



29

Upton

Upton Station, Coop Car Park

User unknown

Distance 20 metres

21 April 2021

4.25pm

0 - 4.65 mW/m²

0 - 22 V/m

12 Oct 2021

2.05pm

0 - 5.79 mW/m²

0 - 13 V/m



30

Woodchurch

Arrowe Park Road, Hospital

User unknown

Distance 20 metres

29 Apr 2021

9.55am

0 - 16.7 mW/m²

0 - 7 V/m

6 Oct 2021

3.30pm

0 - 20.00+ mW/m²

0 - 14 V/m



31

Woodchurch

New Hey Road, Flats

User unknown

Distance 50 metres

21 May 2021

12.30pm

0 - 7.75 mW/m²

0 - 3 V/m

12 Oct 2021

1.50pm

0 - **16.12** mW/m²

0 - **11** V/m



33

Noctorum

Noctorum Way

User **Vodafone**

Distance 5 metres

29 Apr 2021

10.58am

0 - **20.00+** mW/m²

0 - **98** V/m

12 Oct 2021

1.45pm

0 - **20.00+** mW/m²

0 - **64** V/m



34

Bidston

M53 Motorway Jct 2 Beechwood

User unknown

Distance 40 metres

19 July 2021

2.20pm

0 - 8.98 mW/m²

0 - 3 V/m

4 Sept 2021

1.12pm

0 - 12.00 mW/m²

0 - 21 V/m



35

Bidston

M53 Bidston Flyover

User unknown

Distance 10 metres

24 May 2021

12.05pm

0 - 18.44 mW/m²

0 - 9 V/m

4 Sept 2021

1.08pm

0 - 20.00+ mW/m²

0 - 115 V/m



118

Noctorum

Ridgeway School

User unknown

Distance 50 metres

24 May 2021

12.50pm

0 - 2.45 mW/m²

0 V/m

12 Oct 2021

1.00pm

0 – 1.87 mW/m²

0 V/m



123

Moreton

Merseyrail, Millhouse

User unknown

Distance 30 metres

3 June 2021

10.50am

0 - 3.55 mW/m²

0 V/m

13 Oct 2021

12.50pm

0 – 5.78 mW/m²

0 – 2 V/m



125

Moreton

Tarran Way Industrial Estate

User **Vodafone**

Distance 10 metres

6 June 2021

10.10am

0 - **17.6** mW/m²

0 V/m

3 Sept 2021

1.00pm

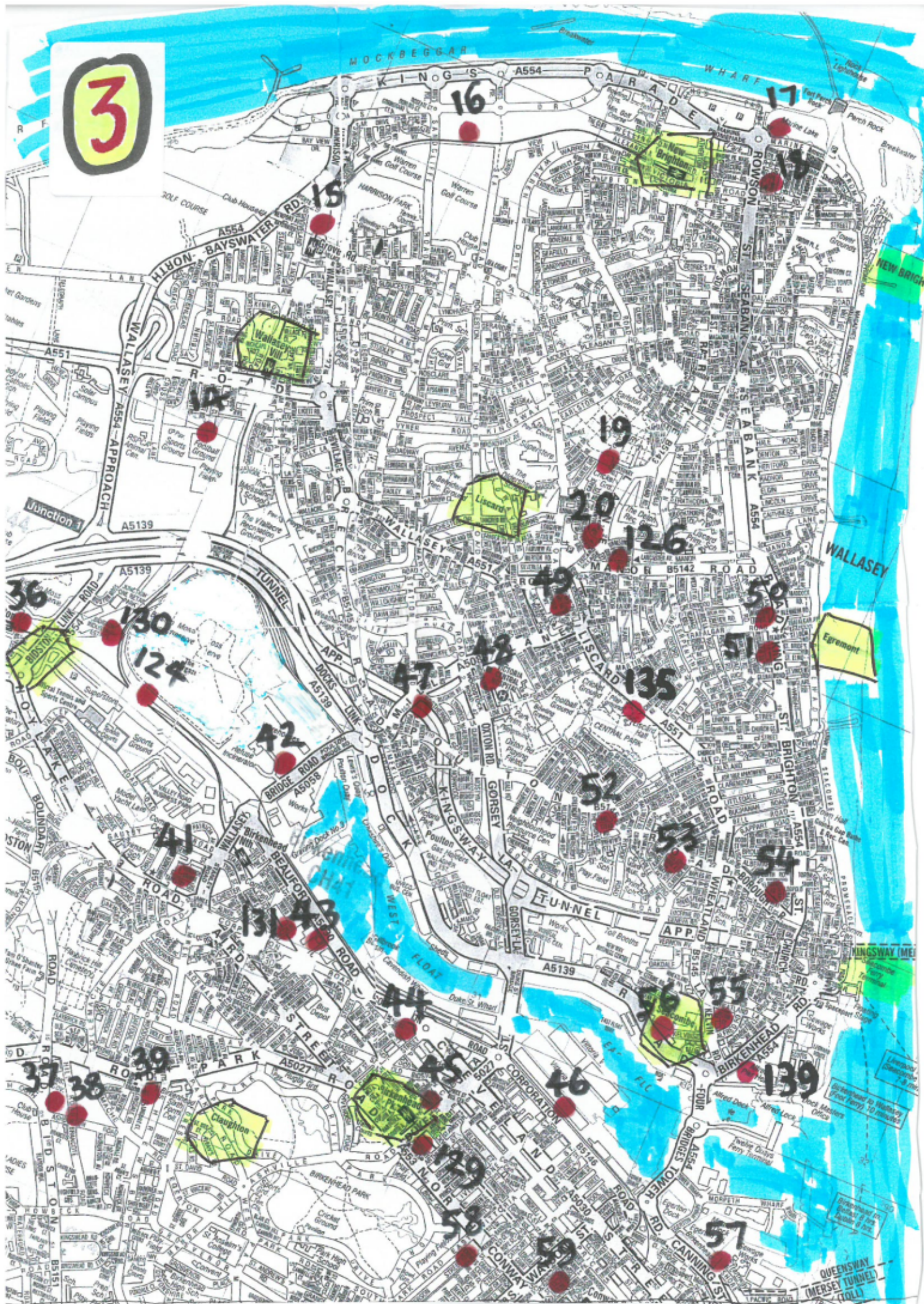
0 - **20.00+** mW/m²

0 - 1 V/m

10.6 MAP 3	
Map Reference	Location
14	Wallasey, Rugby Club
15	Wallasey, Windsors Car Sales
16	New Brighton, Trainline by Dips
17	New Brighton, Parade
18	New Brighton, Rowson Street Church
19	Liscard, Rake Lane Cricket Club
20	Liscard, Kenwyn Road, Egerton Grove
36	Bidston, Train Station
37	Bidston, Boundary Road
38	Bidston, Ashburton Road
39	Claughton Village
41	Birkenhead North, Asda
42	Bidston, Tip
43	Birkenhead, Beaufort Road
44	Birkenhead, Corporation Road Police Custody Suite
45	Birkenhead, Price Street Flats
46	Birkenhead, Corporation Rd, Livingstone Rd
47	Wallasey, Mill Lane over M53
48	Liscard, Fire Stn Mill Lane
49	Liscard, Cherrytree Flats, Cherrytree Centre
50	Egremont, Greenwood Lane
51	Egremont, Esso Station
52	Seacombe, Poulton Road, The Grove Bus Stop
53	Seacombe, Poulton Rd, York Rd
54	Seacombe, Borough Road
55	Seacombe, Kelvinside, Wheatland Lan
56	Seacombe. East Float Quay, opp Tate Lyle Bldg
57	Birkenhead, Woodside Sewage Works
58	Birkenhead, Furniture World, Park Road East.
59	Birkenhead, Beckwith St, Price St Flats
124	Bidston, Merseyrail. Tesco
126	Liscard. Manor Road Police Station
129	Birkenhead Park, Merseyrail Station
130	Birkenhead, Merseyrail New Brighton Line Split
131	Birkenhead. Lincoln Street
135	Liscard. Liscard Road
139	Seacombe. Birkenhead Road

Total 37

3





14

Wallasey Village

off Leasowe Road, Rugby Club

User unknown

Distance 10 metres

23 March 2021

12.20pm

0 - **16.77** mW/m²

0 - **11** V/m

1 Oct 2021

12.35pm

0 - **20.00+** mW/m²

0 - **6** V/m



15

Wallasey

Wallasey Village, Windsors Cars

User **Vodafone**

Distance 5 metres

23 March 2021

12.30pm

0 - **13.35** mW/m²

0 - **11** V/m

1 Oct 2021

12.15pm

0 - **16.74** mW/m²

0 - **6** V/m



16

New Brighton

Kings Parade, Dips by Trainline

User unknown

Distance 10 metres

21 May 2021

12.06pm

0 - 3.9 mW/m²

0 V/m

1 Oct 2021

9.05am

0 - 5.27 mW/m²

0 - 2 V/m



17

New Brighton

New Brighton Parade

User **EE / Hutchison 3G UK**

Distance 5 metres

23 March 2021

12.45pm

0 - **18.99** mW/m²

0 - **112** V/m

1 Oct 2021

12.40pm

0 - **20.00+** mW/m²

0 - 13 V/m



18

New Brighton

Rowson Street, Church

User unknown

Distance 10 metres

23 March 2021

12.55pm

0 - 19.56 mW/m²

0 - 43 V/m

3 Sept 2021

12.45pm

0 - 20.00+ mW/m²

0 - 12 V/m



19

Liscard

Rake Lane Cricket Club

User **Vodafone**

Distance 5 metres

23 March 2021

1.40pm

0 - 20.00+ mW/m²

0 - 55 V/m

1 Oct 2021

10.50am

0 - 20.00+ mW/m²

0 - 6 V/m



20

Liscard

Rake Lane, Kenwyn Road

User unknown

Distance 10 metres

29 Apr 2021

1.25pm

0 - **20.00+** mW/m²

0 - **41** V/m

1 Oct 2021

10.45am

0 - **20.00+** mW/m²

0 - **6** V/m



36

Bidston

Bidston Train Station

User **Vodafone**

Distance 10 metres

29 Apr 2021

2.10pm

0 - **12.75** mW/m²

0 - **99** V/m

4 Sept 2021

1.05pm

0 - **16.63** mW/m²

0 - **83** V/m



37

Bidston

Boundary Road

User **Hutchison 3G UK**

Distance 5 metres

23 March 2021

2.45pm

0 - 3.7 mW/m²

0 - 53 V/m

1 Oct 2021

5.20pm

*0 - **20.00+** mW/m²*

0 - 5 V/m



38

Bidston

Ashburton Road

User **Vodafone**

Distance 5 metres

29 Apr 2021

11.08am

*0 - **18.32** mW/m²*

0 - 12 V/m

1 Oct 2021

5.24pm

*0 - **20.00+** mW/m²*

0 - 5 V/m



39

Claughton Village

Park Road

User **EE Ltd / Hutchison 3G UK**

Distance 5 metres

29 Apr 2021

11.17am

0 - 18.66 mW/m²

0 - 197 V/m

1 Oct 2021

5.10pm

0 - 20.00+ mW/m²

0 - 4 V/m



41

Birkenhead North

Stanley Road, Asda

User unknown

Distance 5 metres

23 March 2021

2.35pm

0 - 6.00 mW/m²

0 - 52 V/m

4 Sept 2021

12.55pm

0 - 20.00+ mW/m²

0 - 6 V/m



42

Bidston

Wallasey Bridge Road, Council Tip

User **Hutchison 3G UK**

Distance 10 metres

24 May 2021

11.50am

0 - 20.00+ mW/m²

0 - 17 V/m

12 Oct 2021

1.15pm

0 - 20.00+ mW/m²

0 - 29 V/m



43

Birkenhead

Beaufort Road

User **Vodafone**

Distance 5 metres

23 March 2021

2.30pm

0 - 19.96 mW/m²

0 - 126 V/m

4 Sept 2021

12.05pm

0 - 20.00+ mW/m²

0 - 6 V/m



44

Birkenhead

Corporation Road, Police Suite

User unknown

Distance 10 metres

23 March 2021

2.24pm

0 - 20.00+ mW/m²

0 – 46 V/m

4 Sept 2021

12.00 noon

0 - 20.00+ mW/m²

0 – 6 V/m



45

Birkenhead

Price St / Duke St, Flats

User unknown

Distance 50 metres

23 March 2021

2.12pm

0 - 3.54 mW/m²

0 – 6 V/m

1 Oct 2021

11.50am

0 – 1.64 mW/m²

0 – 17 V/m



46

Birkenhead

Corporation Rd

User unknown

Distance 20 metres

29 Apr 2021

11.32am

0 - 3.30 mW/m²

0 – 7 V/m

1 Oct 2021

11.55am

0 – 8.29 mW/m²

0 – 6 V/m



47

Wallasey

Mill Lane, over M53

User **Vodafone**

Distance 10 metres

21 May 2021

11.44am

0 - **20.00+** mW/m²

0 – **112** V/m

4 Sept 2021

12.20pm

0 - **20.00+** mW/m²

0 – **246** V/m



48

Liscard

Mill Lane, Fire Station

User unknown

Distance 10 metres

29 Apr 2021

1.20pm

0 - 20.00+ mW/m²

0 - 87 V/m

4 Sept 2021

12.25pm

0 - 20.00+ mW/m²

0 - 6 V/m



49

Liscard

Mill Lane, Flats

User unknown

Distance 40 metres

29 April 2021

1.50pm

0 - 7.76 mW/m²

0 - 15 V/m

4 Sept 2021

12.40pm

0 - 20.00+ mW/m²

0 - 6 V/m



50

Egremont

Greenwood Lane

User **Vodafone**

Distance 5 metres

23 March 2021

1.50pm

0 - **19.96** mW/m²

0 - **92** V/m

1 Oct 2021

9.25am

0 - **17.63** mW/m²

0 - **65** V/m



51

Egremont

King Street, Esso Station

User unknown

Distance 5 metres

23 March 2021

1.55pm

0 - **20.00+** mW/m²

0 - **299** V/m

1 Oct 2021

9.30am

0 - **20.00+** mW/m²

0 - **473** V/m



52

Seacombe

Poulton Rd / The Grove, Bus

Stop

User **Vodafone**

Distance 5 metres

29 Apr 2021

1.15pm

0 - **14.73** mW/m²

0 - **445** V/m

3 Sept 2021

2.05pm

0 - **20.00+** mW/m²

0 - **859** V/m



53

Seacombe

Poulton Rd / York Rd

User **EE / Hutchison 3G**

Distance 10 metres

29 Apr 2021

1.10pm

0 - **20.00+** mW/m²

0 - **256** V/m

3 Sept 2021

2.10pm

0 - **20.00+** mW/m²

0 - **238** V/m



54

Seacombe

Borough Road

User unknown

Distance 10 metres

29 Apr 2021

1.05pm

0 - 20.00+ mW/m²

0 - 45 V/m

1 Oct 2021

9.40am

0 - 20.00+ mW/m²

0 - 244 V/m



55

Seacombe

Kelvinside / Wheatland Lane

User **Vodafone**

Distance 10 metres

23 March 2021

2.05pm

0 - 14.02 mW/m²

0 - 7 V/m

1 Oct 2021

9.45am

0 - 20.00+ mW/m²

0 - 213 V/m



56

Seacombe

East Float Quay, opp Tate & Lyle

User unknown

Distance 25 metres

29 Apr 2021

12.55pm

0 - 5.50 mW/m²

0 - 51 V/m

1 Oct 2021

9.55am

0 - 2.49 mW/m²

0 - 249 V/m



57

Birkenhead

Woodside, Sewage Works

User unknown

Distance 60 metres

29 Apr 2021

12.45pm

0 - 2.53 mW/m²

0 V/m

1 Oct 2021

11.15am

0 - 4.12 mW/m²

0 - 6 V/m



58

Birkenhead

Park Road East, Furniture World

User unknown

Distance 15 metres

29 Apr 2021

11.40am

0 - 20.00+ mW/m²

0 - 55 V/m

4 Sept 2021

11.50am

0 - 20.00+ mW/m²

0 - 6 V/m



59

Birkenhead

Beckwith St / Price St, Flats

User unknown

Distance 50 metres

29 Apr 2021

11.50am

0 - 9.74 mW/m²

0 V/m

4 Sept 2021

11.40am

0 - 20.00+ mW/m²

0 - 6 V/m



124

Bidston

Merseyrail, Tesco

User unknown

Distance 40 metres

3 June 2021

9.50am

0 - 7.9 mW/m²

0 - 7 V/m

11 Oct 2021

2.20pm

0 - 1.92 mW/m²

0 - 27 V/m



126

Liscard

Manor Road, Police Station

User unknown

Distance 10 metres

12 July 2021

6.00pm

0 - 16.87 mW/m²

0 V/m

12 Oct 2021

11.25am

0 - 1.45 mW/m²

0 - 3 V/m



129

Birkenhead Park
Merseyrail, Station
User unknown
Distance 30 metres

22 July 2021
10.20am

0 – 7.68 mW/m²

17 V/m

1 Oct 2021
11.45am

0 – 4.22 mW/m²

0 – 317 V/m



130

Birkenhead
Birkenhead - New Brighton line split
User unknown
Distance 60 metres

22 July 2021
10.25am

0.00 mW/m² (moving on train)

0 V/m

14 Oct 2021
12.20pm

0 – 2.97 mW/m² (moving on train)

0 - 2 V/m



131

Birkenhead

Lincoln Street

User **EE Ltd / Hutchison 3G UK**

Distance 10 metres

23 July 2021

8.40am

0 - 17.8 mW/m2

0 - 111 V/m

4 Sept 2021

12.10pm

0 - 20.00+ mW/m2

0 - 6 V/m



135

Liscard

Liscard Road

Installer **CommHoist**

User **EE / Hutchison 3G**

Distance 5 metres

3 September 2021

1.20pm

0.00 mW/m2 - Not working yet

0 V/m

12 Oct 2021

12.50pm

0 - 0.00 mW/m2

0 - 12 V/m



139

Seacombe

Birkenhead Road

User **EE / H3G**

Distance 5 metres

15 Oct 2021

2.00pm

0 – 1.17 mW/m²

0 V/m

16 Oct 2021

2.30pm

0 – 2.49 mW/m²

0 – 119 V/m

10.7 MAP 4	
Map Reference	Location
40	Oxton, Cricket Ground, Townfield Lane (x2)
60	Birkenhead, Lorn Street
73	Prenton, Reservoir Road
74	Bebington, Levers Causeway
75	Bebington, Mount Road, Bromleigh Close
76	Bebington, The Broadway
77	Birkenhead, Oxton Road, Heliya Cafe Roof
78	Birkenhead, Tunnel Entrance, CCCo. Roof
79	Birkenhead, Borough Road, Balls Road
80	Birkenhead, Victoria Road
81	Birkenhead, St Catherines Hospital
82	Birkenhead, St Catherines Hospital
83	Birkenhead, Borough Rd Singleton Bus Stop
84	Rock Ferry, Sidney Rd
85	Prenton, Tranmere Rovers Football Club (x2)
86	Prenton, The Wiend
87	Rock Ferry, Bebington Road Flats
88	Rock Ferry, St Pauls Road.
89	Rock Ferry, Woburn Place
90	Rock Ferry, Rock Lane West
91	Rock Ferry, Knowsley Road Flats
92	New Ferry, behind John Masefield Pub
93	Bebington, Train Station
94	Bebington, Heath Road Bus Stop
95	New Ferry, New Build off A41 nr William Burton Pl
96	New Ferry, New Build off A41 nr White Bridge Rd
97	Bromborough, Fire Station
99	Bromborough Road, under Railway Bridge (x2)
100	Spital, Three Stags Pub
101	Clatterbridge Road Farm
117	Oxton, Shrewsbury Road, Palm Grove
134	Tranmere. Old Chester Road
138	Birkenhead. Borough Road nr Charing Cross

Total 33





40

Oxton

Townfield Lane, Cricket Club (x2)

User **T Mobile / Vodafone**

Distance 10 metres

29 Apr 2021

10.50am

0 - **19.35** mW/m²

0 - **648** V/m

12 Oct 2021

1.35pm

0 - **14.85** mW/m²

0 - **229** V/m



60

Birkenhead

Lorn Street / Marion Street

User unknown

Distance 20 metres

21 April 2021

10.35am

0 - **17.61** mW/m²

0 - 28 V/m

7 Oct 2021

11.44am

0 - **20.00+** mW/m²

0 - 5 V/m



73

Prenton

Reservoir Road

User unknown

Distance 15 metres

29 Apr 2021

10.10am

0 - **20.00+** mW/m²

0 - **88** V/m

5 Oct 2021

2.55pm

0 - **20.00+** mW/m²

0 - **17** V/m



74

Bebington

Levers Causeway

User **T Mobile**

Distance 5 metres

20 May 2021

10.50am

0 - **19.67** mW/m²

0 - **112** V/m

6 Oct 2021

12.26pm

0 - **16.03** mW/m²

0 - **466** V/m



75

Bebington

Mount Road / Bromleigh Close

User **Vodafone**

Distance 10 metres

21 April 2021

2.25pm

0 - **20.00+** mW/m²

0 - **348** V/m

6 Oct 2021

12.18pm

0 - **20.00+** mW/m²

0 - **426** V/m



76

Bebington

The Broadway

User **Vodafone**

Distance 5 metres

21 April 2021

11.45am

0 - **17.00** mW/m²

0 - **255** V/m

6 Oct 2021

12.33pm

0 - **16.82** mW/m²

0 - **638** V/m



77

Birkenhead

Oxton Road nr Casino

User unknown

Distance 10 metres

21 April 2021

10.45am

0 - **16.96** mW/m²

0 – 7 V/m

7 Oct 2021

11.55am

0 - **20.00+** mW/m²

0 – 20 V/m



78

Birkenhead

Queensway Tunnel - CCCo

User unknown

Distance 20 metres

21 April 2021

10.30am

0 - **17.98** mW/m²

0 – 3 V/m

7 Oct 2021

11.50am

0 - **20.00+** mW/m²

0 – 6 V/m



79

Birkenhead

Borough Road / Balls Road (x2)

EE / T Mobile / Hutchison 3G UK

Distance 5 metres

21 April 2021

10.55am

0 - 18.00 mW/m²

0 - 299 V/m

7 Oct 2021

12.06pm

0 - 20.00+ mW/m²

0 - 114 V/m



80

Birkenhead

Victoria Road

User **T Mobile**

Distance 5 metres

21 April 2021

11.25am

0 - 20.00+ mW/m²

0 - 14 V/m

7 Oct 2021

12.22pm

0 - 20.00+ mW/m²

0 - 62 V/m



81

Birkenhead

St Catherine's Hospital 1

User unknown

Distance 30 metres

21 April 2021

11.30am

0 - 9.90 mW/m²

0 - 9 V/m

7 Oct 2021

12.17pm

0 - 20.00+ mW/m²

0 - 73 V/m



82

Birkenhead

St Catherine's Hospital 2

User unknown

Distance 30 metres

21 April 2021

11.30am

0 - 11.6 mW/m²

0 - 19 V/m

7 Oct 2021

12.19pm

0 - 17.46 mW/m²

0 - 11 V/m



83

Birkenhead

Borough Rd / Singleton Rd

User **T Mobile**

Distance 5 metres

21 April 2021

11.00am

0 - **10.54** mW/m²

0 - 7 V/m

7 Oct 2021

12.12pm

0 - **20.00+** mW/m²

0 - 10 V/m



84

Rock Ferry

Sidney Road

User unknown

Distance 20 metres

29 Apr 2021

12 noon

0 - **13.72** mW/m²

0 - **166** V/m

7 Oct 2021

12.31pm

0 - **20.00+** mW/m²

0 - **79** V/m



85

Prenton

Tranmere Rovers Football Club (x2)

User unknown

Distance 30 metres

21 April 2021

11.10am

0 - **18.84** mW/m²

0 - 27 V/m

12 Oct 2021

12.25pm

0 - 9.74 mW/m²

0 - **314** V/m



86

Prenton

The Wiend

User **Vodafone**

Distance 5 metres

21 April 2021

11.20am

0 - **19.40** mW/m²

0 - **69** V/m

5 Oct 2021

2.50pm

0 - **18.12** mW/m²

0 - 11 V/m



87

Rock Ferry

Bebington Road, Flats

User unknown

Distance 60 metres

21 April 2021

11.35am

0 - 13.94 mW/m²

0 V/m

5 Oct 2021

2.45pm

0 - 20.00+ mW/m²

0 - 7 V/m



88

Rock Ferry

St Pauls Road

User unknown

Distance 10 metres

29 Apr 2021

12.05pm

0 - 3.70 mW/m²

0 - 9 V/m

5 Oct 2021

2.34pm

0 - 20.00+ mW/m²

0 - 36 V/m



89

Rock Ferry

Woburn Place

User **Vodafone / O2**

Distance 10 metres

29 Apr 2021

12.35pm

0 - **10.45** mW/m²

0 - 16 V/m

5 Oct 2021

2.36pm

0 - 9.55 mW/m²

0 - 8 V/m



90

Rock Ferry

Rock Lane West

User unknown

Distance 10 metres

29 Apr 2021

12.12pm

0 - **19.57** mW/m²

0 - 22 V/m

5 Oct 2021

2.30pm

0 - **20.00+** mW/m²

0 - 12 V/m



91

Rock Ferry

Knowsley Road, Flats

User unknown

Distance 40 metres

29 Apr 2021

12.17pm

0 - 8.45 mW/m²

0 - 3 V/m

5 Oct 2021

2.25pm

0 - 13.42 mW/m²

0 - 13 V/m



92

New Ferry

Above John Masfield Pub

User unknown

Distance 10 metres

29 Apr 2021

12.24pm

0 - 20.00+ mW/m²

0 - 188 V/m

5 Oct 2021

2.22pm

0 - 20.00+ mW/m²

0 - 13 V/m



93

Bebington

Chester Road, Train Station

User **T Mobile**

Distance 5 metres

21 April 2021

12.01pm

0 - **17.6** mW/m²

0 - **61** V/m

6 Oct 2021

12.44pm

0 - **20.00+** mW/m²

0 - **665** V/m



94

Bebington

Heath Road, Bus Stop

User **Vodafone**

Distance 5 metres

21 April 2021

11.55am

0 - **18.50** mW/m²

0 - **554** V/m

6 Oct 2021

12.39pm

0 - **17.08** mW/m²

0 - **714** V/m



95

New Ferry

William Burton Place, off A41

User **EE / Hutchison 3G UK**

Distance 10 metres

5 May 21

11.53am

0 - **20.00+** mW/m²

0 - **177** V/m

5 Oct 2021

1.46pm

0 - **20.00+** mW/m²

0 - **20** V/m



96

New Ferry

White Bridge Rd, off A41

User **Vodafone**

Distance 10 metres

5 May 21

12.01pm

0 - **20.00+** mW/m²

0 - **77** V/m

5 Oct 2021

1.49pm

0 - **15.54** mW/m²

0 - **15** V/m



97

Bromborough

Fire Station

User unknown

Distance 15 metres

5 May 2021

12.13pm

0 - 4.9 mW/m²

0 - 7 V/m

5 Oct 2021

1.48pm

0 - 7.98 mW/m²

0 - 42 V/m



99

Bromborough

Bromborough Road, Railway Bridge x2

User unknown

Distance 10 metres

5 May 2021

12.39pm

0 - 20.00+ mW/m²

0 - 3 V/m

5 Oct 2021

1.32pm

0 - 17.05 mW/m²

0 - 5 V/m



100

Spital

Three Stags Pub

User **Orange**

Distance 5 metres

21 April 2021

12.10pm

0 - **13.00** mW/m²

0 - 7 V/m

5 Oct 2021

12.54pm

0 - **14.02** mW/m²

0 - **74** V/m



101

Clatterbridge

Clatterbridge Rd, Claremont Farm

User **Vodafone**

Distance 10 metres

21 April 2021

2.10pm

0 - **16.38** mW/m²

0 - **101** V/m

5 Oct 2021

12.50pm

0 - **16.87** mW/m²

0 - **197** V/m



117

Oxton

Palm Grove

User unknown

Distance 25 metres

24 May 2021

12.40pm

0 - **20.00+** mW/m²

0 - **44** V/m

12 Oct 2021

12.50pm

0 - **20.00+** mW/m²

0 - **87** V/m



134

Tranmere

Old Chester Road

User **EE / H3G**

Distance 10 metres

8 August 2021

4.05pm

0.00 mW/m² - Not working yet

0 V/m - Not working yet

16 Nov 2021

12.32pm

0 - **20.00+** mW/m²

0 - **41** V/m



138

Birkenhead

Borough Road, near Tunnel

Installer **Commscope**

User not allocated yet

Distance 5 metres

6 Oct 2021

3.05pm

0 – 8.74 mW/m²

0 V/m

7 Oct 2021

11.58am

0 – 0 mW/m²

0 – 6 V/m

10.8 MAP 5	
Map Reference	Location
25	Irby, Shippons Pub
26	Irby Village, Bus Stop
32	Thurstaston. Nr Dawpool Cottages
61	Pensby, Pensby Road, Shops
62	Thingwall Reservoir
63	Heswall, Mere Lane
64	Pensby, Pensby Road Sainsburys
65	Heswall, Poll Hill Road Public Path
66	Pensby, Pensby Road, Harvest Mount Pub
67	Heswall, Flats next to Tesco
68	Heswall, Crossroads Fire Station
69	Heswall, Telegraph Road Church
70	Heswall, Shell Roundabout
71	Heswall, Acre Lane Shops
72	Heswall, Boathouse Lane
140	Heswall, Chester Road, Gayton Road

Total 16





25

Irby

Thingwall Road, Shippons Pub

User Unknown

Distance 10 metres

13 April 2021

10.15am

0 - **19.96** mW/m²

0 - **115** V/m

4 Sept 2021

10.45am

0 - **20.00+** mW/m²

0 - **15** V/m



26

Irby

Thingwall Road, Bus Stop

User **Vodafone**

Distance 5 metres

13 April 2021

10.20am

0 - **18.17** mW/m²

0 - **46** V/m

4 Sept 2021

10.47am

0 - **20.00+** mW/m²

0 - **8** V/m



32

Thurstaston

Nr Dawpool Cottages

User unknown

Distance 150 metres

14 Jul 2021

12.05pm

0 - 3.58 mW/m²

0 V/m

13 Oct 2021

9.35am

0 – 1.96 mW/m²

0 – 1 V/m



61

Pensby

Pensby Road, Shops

User **T Mobile**

Distance 5 metres

13 April 2021

10.30am

0 - **19.30** mW/m²

0 – 49 V/m

5 Oct 2021

11.08am

0 – **20.00+** mW/m²

0 – 10 V/m



62

Thingwall

Thingwall Reservoir

User unknown

Distance 50 metres

21 April 2021

2.40pm

0 - 9.7 mW/m²

0 - 17 V/m

6 Oct 2021

11.58am

0 - 12.98 mW/m²

0 - 13 V/m



63

Heswall

Mere Lane

User **Vodafone**

Distance 5 metres

13 April 2021

11.50am

0 - 10.6 mW/m²

0 - 133 V/m

6 Oct 2021

11.45am

0 - 10.18 mW/m²

0 - 92 V/m



64

Pensby

Pensby Road, Sainsburys

User **Vodafone**

Distance 5 metres

13 April 2021

10.35am

0 - 19.2 mW/m²

0 – 61 V/m

5 Oct 2021

11.22am

0 – 20.00+ mW/m²

0 – 9 V/m



65

Heswall

Poll Hill Road, Public Pathway

User **EE**

Distance 10 metres

20 May 2021

2.30pm

0 - 7.48 mW/m²

0 – 259 V/m

5 Oct 2021

11.55am

0 – 20.00+ mW/m²

0 – 715 V/m



66

Pensby

Pensby Rd, Harvest Mouse Pub

User **T Mobile**

Distance 5 metres

13 April 2021

10.40am

0 - **19.12** mW/m²

0 – 26 V/m

5 Oct 2021

11.24am

0 - **20.00+** mW/m²

0 – 8 V/m



67

Heswall

Telegraph Rd, Flats next to

Tesco

User unknown

Distance 15 metres

21 April 2021

2.50pm

0 - **1.80** mW/m²

0 – 3 V/m

5 Oct 2021

11.35am

0 - **1.38** mW/m²

0 – 10 V/m



68

Heswall

Heswall Crossroads, Fire Station

User **Vodafone**

Distance 10 metres

13 April 2021

10.55am

0 - 18.00 mW/m2

0 – 7 V/m

5 Oct 2021

11.30am

0 – 17.00 mW/m2

0 – 6 V/m



69

Heswall

Telegraph Road, Church

User **T Mobile UK**

Distance 5 metres

13 April 2021

10.50am

0 - 19.27 mW/m2

0 – 78 V/m

5 Oct 2021

12.00 noon

0 – 20.00+ mW/m2

0 – 6 V/m



70

Heswall
Shell Roundabout
User **Orange**
Distance 5 metres

20 May 2021
2.15pm

0 - **18.13** mW/m²

0 - **27** V/m

5 Oct 2021
12.05pm

0 - **3.67** mW/m²

0 - **217** V/m



71

Heswall
Acre Lane, Shops
User **Orange**
Distance 5 metres

20 May 2021
10.30am

0 - **20.00+** mW/m²

0 - **199** V/m

6 Oct 2021
12.06pm

0 - **14.68** mW/m²

0 - **528** V/m



72

Heswall

Boathouse Lane

User **Vodafone**

Distance 5 metres

13 April 2021

11.05am

0 - **18.87** mW/m²

0 - **123** V/m

5 Oct 2021

12.16pm

0 - **13.90** mW/m²

0 - **416** V/m



140

Heswall

Chester Road / Gayton Road

User **EE / H3G**

Distance 5 metres

27 Nov 2021

11.50am

0 - **0.19** mW/m²

0 V/m

28 Nov 2021

10.30am

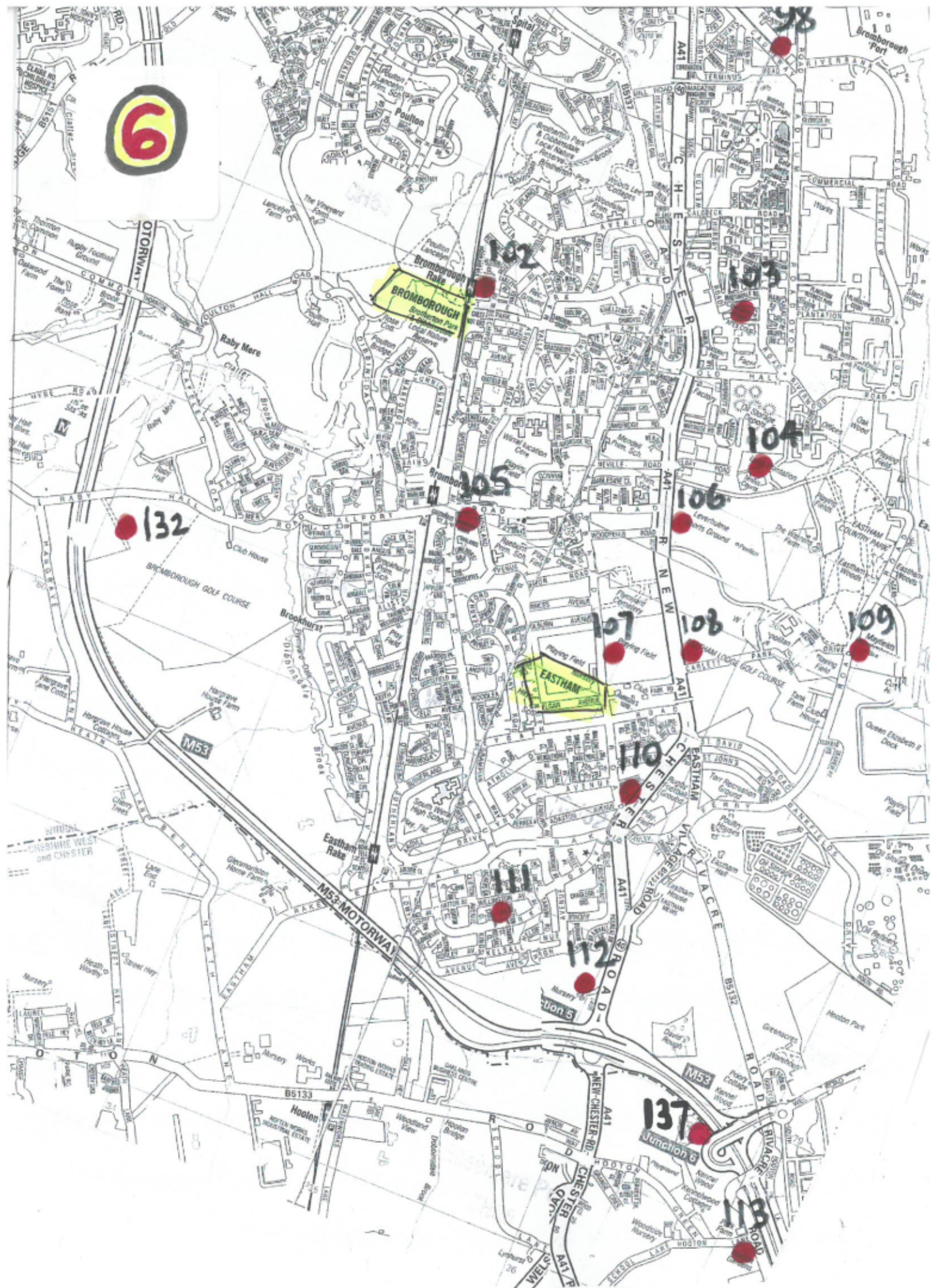
0 - **0.49** mW/m²

0 - **1** V/m

10.9 MAP 6	
Map Reference	Location
98	Bromborough, Causeway
102	Bromborough, Rake Train Station
103	Bromborough, Thursby Road
104	Eastham, Old Hall Rd Industrial Est off A41
105	Eastham, Allport Rd, Plymyard Rd
106	Eastham, Woodyear Rd on A41
107	Eastham, Bridle Road (x2)
108	Eastham, Lodge Golf Club (x2)
109	Eastham, Ferry Road
110	Eastham, Bridle Road on A41
111	Eastham, Mill Park Drive
112	Eastham, M53 Junction 5 on A41 Nursery
113	Eastham, Rivacre Road
132	Bromborough. Nr Raby Hall Road
137	Eastham M53. Junction 6, Welby Road

Total 15

6





98

Bromborough

The Causeway

User unknown

Distance 20 metres

5 May 2021

12.34pm

0 - **20.00+** mW/m²

0 - 45 V/m

5 Oct 2021

2.11pm

0 - **20.00+** mW/m²

0 - 3 V/m



102

Bromborough

Bromborough Rake, Train Station

User **Vodafone**

Distance 5 metres

5 May 2021

1.22pm

0 - **15.54** mW/m²

0 - 54 V/m

6 Oct 2021

1.35pm

0 - **20.00+** mW/m²

0 - **145** V/m



103

Bromborough

Thursby Road

User **Vodafone**

Distance 20 metres

21 April 2021

12.20pm

0 - 19.52 mW/m²

0 - 125 V/m

5 Oct 2021

11.58am

0 - 20.00+ mW/m²

0 - 16 V/m



104

Eastham

Old Hall Rd, Industrial Est off A41

User unknown

Distance 20 / 10 metres

5 May 2021

11.45am

0 - 16.2 mW/m²

0 - 24 V/m

6 Oct 2021

2.25pm

0 - 20.00+ mW/m²

0 - 304 V/m



105

Eastham

Allport Rd / Plymyard Rd

User **Vodafone**

Distance 5 metres

20 May 2021

12.15pm

0 - **19.96** mW/m²

0 - **152** V/m

6 Oct 2021

1.43pm

0 - **20.00+** mW/m²

0 - **171** V/m



106

Eastham

Woodyear Rd, on A41

User **Vodafone**

Distance 5 metres

5 May 2021

11.35am

0 - **18.8** mW/m²

0 - **9** V/m

6 Oct 2021

1.01pm

0 - **20.00+** mW/m²

0 - **330** V/m



107

Eastham

Bridle Road (x2)

EE / Hutchison 3G UK / Vodafone

Distance 5 metres

5 May 2021

1.37pm

0 - **15.46** / **12.2** mW/m²

0 - **78** / 18 V/m

6 Oct 2021

1.07pm

0 - **20.00+** / **20.00+** mW/m²

0 - **665** / **227** V/m



108

Eastham

Eastham Lodge Golf Club (x2)

User **EE Hutchison 3G UK**

Distance 5 metres

5 May 2021

11.30am

0 - **17.6** mW/m²

0 - **99** V/m

6 Oct 2021

1.12pm

0 - **20.00+** mW/m²

0 - **155** V/m



109

Eastham

Ferry Road

User **T Mobile**

Distance 5 metres

5 May 2021

2.10pm

0 - 9.49 mW/m²

0 – 37 V/m

6 Oct 2021

2.09pm

0 – 12.22 mW/m²

0 – 8 V/m



110

Eastham

Bridle Road, on A41

User **Vodafone**

Distance 5 metres

5 May 2021

1.48pm

0 - 15.74 mW/m²

0 – 112 V/m

6 Oct 2021

1.16pm

0 – 16.38 mW/m²

0 – 638 V/m



111

Eastham

Mill Park Drive

User **Vodafone**

Distance 5 metres

20 May 2021

11.55am

0 - **15.78** mW/m²

0 - 6 V/m

6 Oct 2021

2.45pm

0 - **20.00+** mW/m²

0 - 18 V/m



112

Eastham

M53 Jct 5, onto A41 (Nursery)

User **Hutchison 3G UK**

Distance 10 metres

5 May 2021

1.58pm

0 - **18.49** mW/m²

0 - **555** V/m

6 Oct 2021

2.40pm

0 - **20.00+** mW/m²

0 - **971** V/m



113

Eastham

Rivacre Road

T Mobile / Hutchison 3G UK

Distance 5 metres

5 May 2021

2.20pm

0 - 14.6 mW/m²

0 - 17 V/m

6 Oct 2021

2.55pm

0 - 20.00+ mW/m²

0 - 191 V/m



132

Bromborough

Nr Raby Hall Road

User unknown

Distance 100 metres

29 Apr 2021

3.20pm

0 - 7.75 mW/m²

0 V/m

13 Oct 2021

11.05am

0 - 3.46 mW/m²

0 - 1 V/m



137

Eastham

M53 Junc 6 / Welby Road

User unknown

Distance 30 metres

8 Aug 2021

11.15am

0 – 4.75 mW/m²

0 V/m

6 Oct 2021

2.30pm

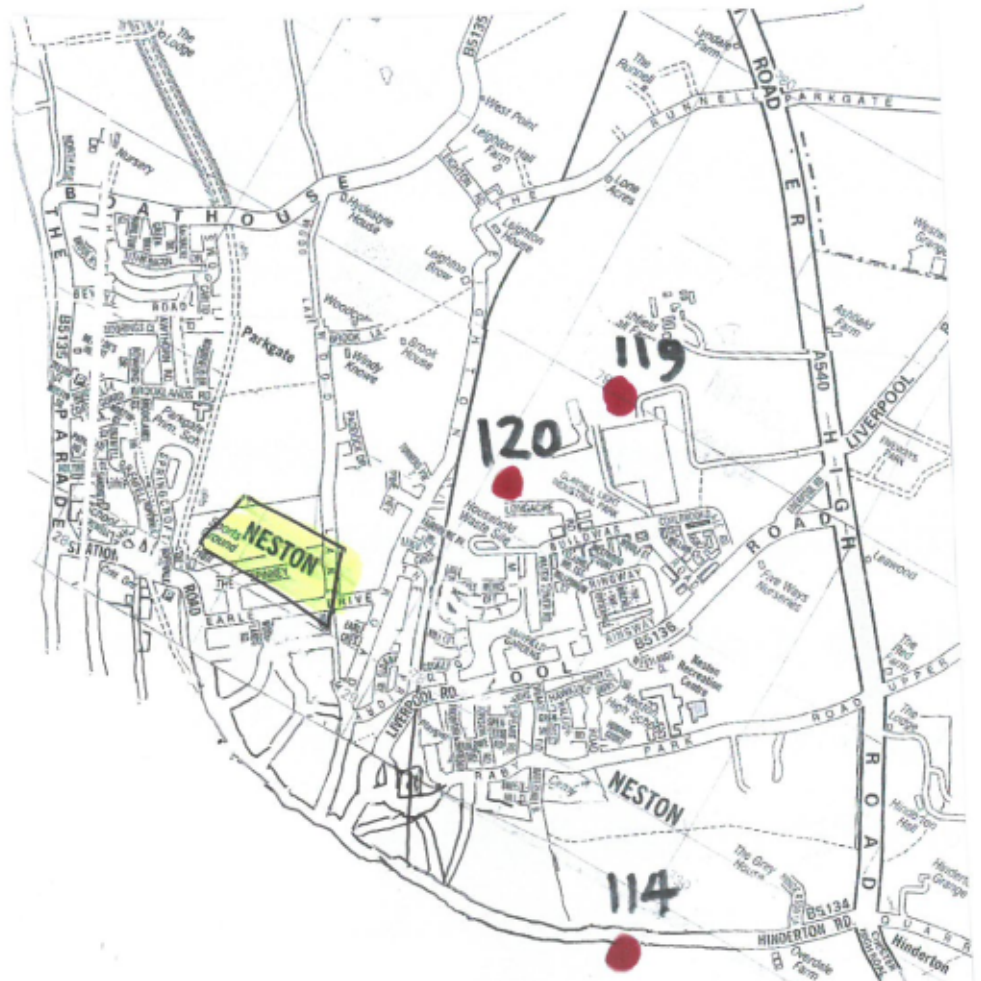
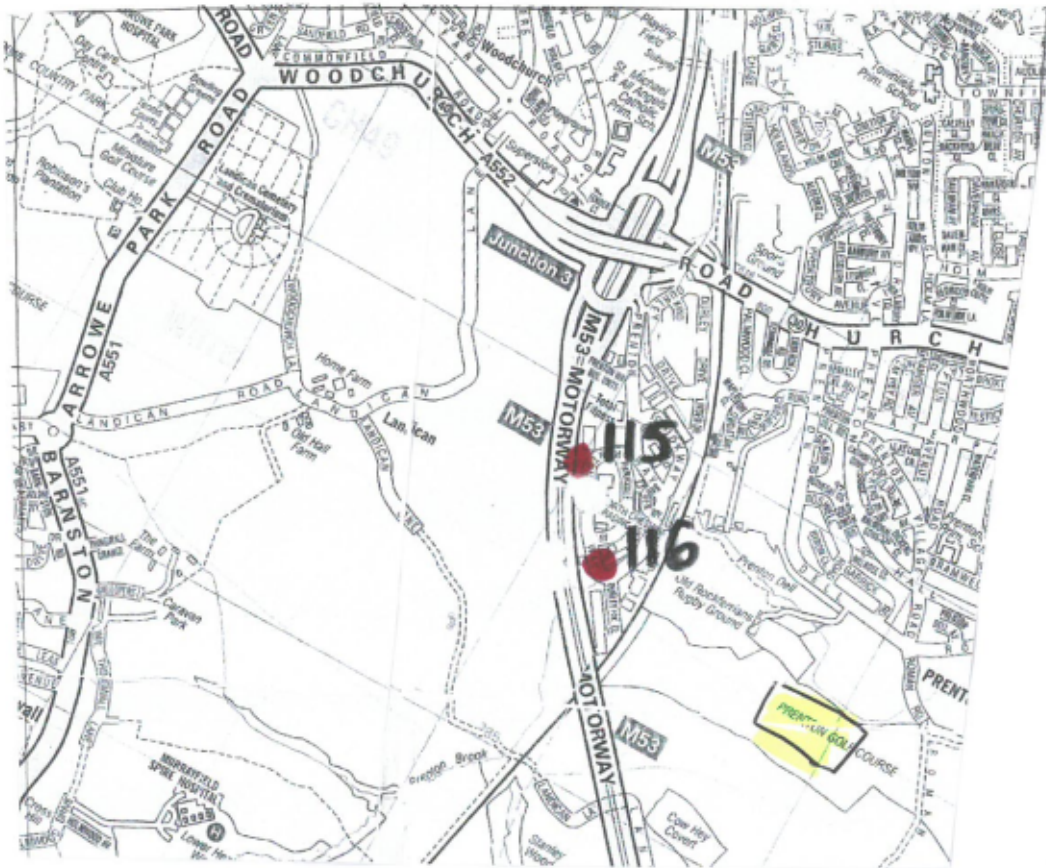
0 – 2.49 mW/m²

0 – 87 V/m

10.10 MAP 7	
Map Reference	Location
114	Neston, Hinderton Road, British Legion
115	Prenton, Industrial Estate, Total Fitness
116	Prenton, Industrial Estate, Scottish Power
119	Neston. Clayhill Light Industrial Estate
120	Neston. Longacre Road

Total 5

7





114

Neston

Hinderton Road, British Legion

User **Orange**

Distance 20 metres

13 April 2021

11.30am

0 - **20.00+** mW/m²

0 - **177** V/m

5 Oct 2021

12.26pm

0 - **20.00+** mW/m²

0 - **23** V/m



115

Prenton

Industrial Estate, Total Fitness

User unknown

Distance 25 metres

29 Apr 2021

10.30am

0 - **13.7** mW/m²

0 V/m

6 Oct 2021

3.15pm

0 - **6.93** mW/m²

0 - **3** V/m



116

Prenton

Industrial Estate, Scottish Power

User unknown

Distance 20 metres

29 Apr 2021

10.25am

0 - **16.9** mW/m²

0 - 6 V/m

6 Oct 2021

3.20pm

0 - **12.02** mW/m²

0 - 15 V/m



119

Neston

Clayhill Light Industrial Estate

User unknown

Distance 15 metres

2 June 2021

4.45pm

0 - **20.00+** mW/m²

0 - 7 V/m

5 Oct 2021

12.36pm

0 - **15.3** mW/m²

0 - 3 V/m



120

Neston

Longacre Road

User **Vodafone**

Distance 10 metres

2 June 2021

4.55pm

0 - 20.00+ mW/m2

0 – 10 V/m

5 Oct 2021

12.33pm

0 – 19.96 mW/m2

0 – 4 V/m

Please remember...

100% of Wirral's operational masts already breach the Bio-Initiative Safety Guidelines.

85% of Wirral's masts also breach the specific level at which RFR induces pathological blood brain barrier leakage and affects immune function, according to studies within the Bio-Initiative Safety Guidelines.

This is before 5G is fully activated.

11.0 LEGAL CASES, RESPONSIBILITIES, ACTIONS AND REMEDIES

Our investigations have led us to the belief that 5G represents a clear and present danger, and a threat to the health and futures of all Wirral residents and its environment. That includes yourself, your family and your friends.

The 5G roll out is causing many Wirral residents high levels of anxiety. We are aware of many people who have been forced to move flat or house just to try and put further distance between their families and these masts that are harming their health.

We hereby report what we consider to be a crime of immense gravity to the local police, local council, mayor and MP's. We demand they all follow up our allegations and investigate urgently, diligently and robustly, without fear or favour. Fear of reprisals from a government seemingly hell bent on rolling this system out. Favour from the 'persuasion' you may or may not have already undergone.

We believe that the installation of both the hardware and the software for 5G across the Wirral represents a threat to ourselves, our children and all Wirral residents who remain as yet unaware of the issue. We also believe that the previous rollouts have already caused large scale quantifiable harm.

Our research shows that Tony Norbury, an elected Wirral councillor from 3 May 2012 till 6 May 2021, attended the 'Radiation Health Conference' in London on 28 September 2019. Speakers included Prof. Devra Davis, Prof. Lennart Hardell, Dr. Erica Mallery-Blythe, Dr. Ronald Melnick, Prof. Martin Pall, Dr. Sarah Starkey, Brian Stein CBE, Dr. Dimitris Panagopoulos, Dr. Andrea Vornoli. Due to the clear public positions of these speakers, it would be safe to assume that the information Mr Norbury collected at the conference would have vaguely reflected the views of the authors of this report, which begs the questions Did Mr Norbury not report his findings back to the council? If the local tax payers paid for his trip, surely we should benefit from the knowledge he garnered ? Where is the public conversation on this vitally important public health issue ? And finally Why is Wirral's 5G rollout continuing ? It cannot be claimed that Wirral Council does not know of the risks that will entail should this dangerous technology not be stopped. This document seeks to address this.

We demand that those with responsibility simply do their jobs properly and begin the movement to expose and rid this process of those who have exploited it to the detriment of the general public, before dismantling the harmful infrastructure.

11.1 Environmental Health Trust vs Federal Communications Commission

On 13 August 2021, the United States District Court of Appeals District of Columbia Circuit Court judged in favour of Environmental Health Trust (EHT) and found that the Federal Communications Commission (FCC) violated the Administrative Procedure Act.

In this historic precedential decision, the Federal Court ordered the FCC to explain why it consistently ignored scientific evidence showing widespread harm from wireless radiation at levels below the Commission's current limits.

The court ordered the FCC to:

- (i) provide a reasoned explanation for its decision to retain its testing procedures for determining whether cell phones and other portable electronic devices comply with its guidelines.
- (ii) address the impacts of RF radiation on children, the health implications of long-term exposure to RF radiation, the ubiquity of wireless devices, and other technological developments that have occurred since the

Commission last updated its guidelines, and

(iii) address the impacts of RF radiation on the environment.

Dr. Devra Davis, president of Environmental Health Trust commented:

"We are delighted that the court upheld the rule of law and found that the FCC must provide a reasoned record of review for the thousands of pages of scientific evidence submitted by Environmental Health Trust and many other expert authorities in this precedent setting case

No agency is above the law. The American people are well served.

If cell phones were a drug they would have been banned years ago.

5G should never have been allowed to market. An ever mounting body of published studies, ignored by the FCC , clearly indicates that exposure to wireless radiation can lead to numerous health effects, especially for children.

Research indicates wireless radiation increases cancer risk, damages memory, alters brain development, impacts reproductive health, and much more.

Furthermore, the way the FCC measures our daily exposure to cell phone and cell tower radiation is fatally flawed and provides a false sense of security.

*Environmental Health Trust submitted hundreds of pages of scientific evidence to the FCC over the last several years documenting the scientific data showing harm, the need for health agencies to create safety limits that protect against biological effects, and the **urgency for infrastructure policy that prioritises wired rather wireless communications to reduce public exposure.***

While there is a lot of work left to do, today's ruling is an important step in protecting people against the harms caused by wireless radiation exposure.

Unfortunately, the telecom industry is now pushing millions of new 5G wireless antennas into neighborhoods and billions of new wireless devices, putting more in harm's way everyday.

While we celebrate today's victory, we must look forward.

Where do we go from here?

*We need a **congressional hearing into how this agency operated above the law** to ensure it never happens again.*

Committing to 5G merely ensures commercial success in selling new devices and cannot bridge the digital divide where many disadvantaged groups lack access to basic technologies.

As we detail in EHT's letter to President Biden, the priority for infrastructure should be for wired rather than wireless internet connections. The U.S. needs a federal action plan on the issue of wireless radiation that should be informed by the latest science showing that current levels of radiation can damage human health and the environment."

Statement by Cindy Franklin of Consumers for Safe Phones, an organisation that was a petitioner in the case...

"The FCC must now admit that its 25-year-old exposure guidelines are bogus.

Our federal regulatory agencies are mandated to protect people and the environment from the **known biological harm from exposure to microwave radio frequency radiation.**

This ruling shows they have failed to do their jobs.

The wireless industry can no longer hide behind the FCC's so-called 'safe' exposure guidelines."

Statement from Liz Barris of The People's Initiative Foundation:

"This day is a long time coming!

So many people are suffering from the effects of wireless radiation and SO MANY are not even connecting their symptoms, illnesses, cancers, and even deaths to the radiation that is causing it because they trust and believe their government!

The FCC failed to respond to ANY of the documentation submitted to them that people are being injured by ALL types of wireless radiation, from cell phones and Wi-Fi to smart meters and cell towers.

We need limits, backed by science, that do not harm people or our environment and thus far, the science shows that the only safe wireless radiation is no wireless radiation.

Hard wired ethernet connections with plugin portals everywhere for cell phones and internet may be our best bet."

In the US, they do not rely on ICNIRP, but the 1996 guidelines they follow, use the same foundational rationale as ICNIRP. This legal case is current, ongoing and the courts are still awaiting the FCC response.

The Washington Spectator recently published an article 9 March 2022, which covers this legal case and also many aspects of what this report is attempting to publicise.

<https://washingtonspectator.org/fcc-electromagnetic-radiation/>

11.2 Action Against 5G, UK Legal Case

In the UK, Michael Mansfield QC is leading a legal team challenging the UK Government over its failure to take notice of the health risks and public concerns related to 5G. This legal case is current and ongoing. On 28 October 2021, a Renewal Notice seeking permission for a Judicial Review hearing was turned down. The reasoning for that decision is thought to be flawed. The case that advanced in the High Court included evidence of manifest, observable and substantial non-thermal injuries from Electro-Magnetic Field Radiation, and identified that there are no studies being undertaken into any risks or protective measures being taken by the Public Health Authorities.

This Judicial Review Application does not ask a judge to finally decide any disputes of medical and scientific evidence, but only to ascertain whether the UK government has reviewed it as part of its risk-assessment obligations. Failure to do so amounts to a grave dereliction of duty.

The legal team presented thousands of pages of peer reviews and evidence of harm from Radiofrequency Radiation (RFR) caused to witnesses in otherwise unmonitored 'hot spots.' Evidence of harm from RFR in individual cases must be heard and addressed.

On 28 October 2021, the court stated that addressing health conditions resulting from 5G was *'out of time, because a policy decision to rollout 5G was effectively made in 2019.'* The legal team do not accept this. According to our research this also seems like a very weak judicial response. Mr. Mansfield and his team believe there would be very good reason to extend time to consider a matter which is subject to ongoing and future expansion, especially when 5G is 'turned on' and the 5G-only frequencies, which pose the greatest risks, go live. Ongoing harm from other noxious substances, such as pesticides, tobacco, asbestos etc are never a matter of only historic interest but are constantly being monitored and investigated, and so should effects from 5G. The legal team have said: *'We are now considering an appeal with the Court of Appeal Civil Division after which we will need to await a decision on whether we have permission to proceed.'*

<https://actionagainst5g.org/>

11.3 Your Legal Responsibilities

Based on our investigations, we as a large group of concerned Wirral residents, **DO NOT CONSENT** to taking part in this 5G experiment. It is an experiment because the 5G rollout involves the use of non ionising radiation, (which has been classed by the WHO as a '*possible*' carcinogen, and has not been safety tested) in close proximity to all of Wirral's residents without their fully informed consent, permission and knowledge. This is a clear breach of a number of the Nuremberg Codes.

We presently number over 230 members, and many of us are prepared to go to extreme lengths to protect ours, our children's, and indeed your own, health by suspending our council tax payments until our demands for these actions are met, such is our seriousness. We are also preparing a legal case to be brought against both the local and national perpetrators, wilful or ignorant, of this deceptive and destructive crime.

As public office holders and being in positions of public trust as well as being recipients of our hard earned taxes, Wirral Mayor, Wirral Borough Council, all 4 Wirral MP's and Merseyside Police **ALL** have a Duty of Care towards **ALL** residents of Wirral.

The fact that the Wirral population have, for at least 10 years, been unknowingly subjected to the harmful effects of a '*possible*' carcinogen that has not undergone any safety testing, and is about to be exponentially increased with this new technology is absolutely staggering.

The World Health Organisation's International Agency for Research on Cancer (WHO - IARC) classification on 31 May 2011, in Lyon, France, that determined Radio Frequency Electro Magnetic Fields to be a '*possible*' carcinogen, means that the covert installation of this untested technology constitutes multiple grave and serious breaches of:

- The Nuremberg Codes,
- The Declaration of Helsinki,
- The Universal Declaration of Human Rights,
- The European Declaration on Human Rights,
- The Universal Declaration on Bioethics and Human Rights,
- The Rome Statute of the International Criminal Court.
- The Declaration of Geneva and International Code of Medical Ethics (when aligned with the medical interventions presently being administered).

Allowing this harmful and '*possibly*' carcinogenic radiation, to permeate the atmosphere of our peninsula, without testing, whether wilfully or ignorantly, would be, upon presentation of the voluminous evidence we hold, construed in a court of law as:

- Gross Negligence
- Grave Dereliction of Duty,
- Misconduct in Public Office,
- Malfeasance in Public Office,
- Misfeasance in Public Office,
- Serious breaches of The Ministerial Codes,
- Serious breaches of The Seven Nolan Principles of Public Life

...by those involved with the decisions that have led us to this point, and those that did nothing to allay it. These offences all constitute financial penalties as well as prison time. We will pursue you in your public capacity and also in your private capacity.

Due to the lack of any safety studies the populations of Wirral, the UK & the wider world are being placed in the position of being non consenting test subjects in a worldwide medical experiment, where we will **ALL** be

subjected to what the World Health Organisation called a '*possible*' cancer causing carcinogen in 2011. Due to ICNIRP infiltration, the WHO have been ignoring pressure to upgrade that '*possible*' to '*probable*' and even '*is a*' cancer causing carcinogen for 10 years now.

We do believe that you should be given an opportunity to perform your job properly and rectify the damage you have done. Should you fail to do so, then we will move forward and prepare more serious charges.

As a group, in principle, we have no issues with advances in technology. That is if it is established beyond reasonable doubt to cause NO HARM to any and all life forms, and that can be shown & proved by extensive long term independent rigorous safety testing.

5G's entire UK regulatory approval is based on the outdated, obsolete, corrupted, yet fiercely protected research commissioned in 1998 known as the ICNIRP guidelines, which originated from research in the 1950's by a former Nazi scientist.

It requires no reminder that wireless technology and all its peripherals have advanced exponentially in the last 24 years. This must surely in itself be sufficient to warrant an urgent independent full safety study to be commissioned and completed once Wirral Council have placed an immediate moratorium on any further work and before the 5G rollout intensifies & accelerates further.

This situation is beyond urgent and must be rectified, the Precautionary Principle **MUST** be applied **IMMEDIATELY**.

We hereby advise all of Wirral's elected officials and public servants to consider their Duty of Care to all of Wirral's residents whilst carefully re-reading their:

- Ministerial Codes,
- Oaths of Office.
- Seven Nolan Principles of Public Life,

Selflessness - Holders of public office should act solely in terms of the public interest.

Integrity - Holders of public office must avoid placing themselves under any obligation to people or organisations that might try inappropriately to influence their work. They should not act or take decisions in order to gain financial or other material benefits for themselves, their family, or their friends. They must declare and resolve any interests and relationships.

Objectivity - Holders of public office must act and take decisions impartially, fairly and on merit, using the best evidence and without discrimination or bias.

Accountability - Holders of public office are accountable for their decisions and actions and must submit themselves to whatever scrutiny necessary to ensure this.

Openness - Holders of public office should act and take decisions in an open and transparent manner. Information should not be withheld from the public unless there are clear and lawful reasons for doing so.

Honesty - Holders of public office should be truthful.

Leadership - Holders of public office should exhibit these principles in their own behaviour. They should actively promote and robustly support the principles and be willing to challenge poor behaviour wherever it occurs.

We also suggest you read:

- The Nuremburg Codes,
- The Helsinki Declaration,
- The Universal Declaration of Human Rights,
- The European Declaration on Human Rights,
- The Universal Declaration on Bioethics and Human Rights,
- The Rome Statute of the International Criminal Court,
- The Declaration of Geneva and International Code of Medical Ethics

11.4 Legal Actions

1. Place an **IMMEDIATE Cease and Desist Order** or **Moratorium** on any and all further work on the entire' telecommunications' network aside from routine maintenance. That is installations, updates or upgrades to both hardware and software, ensuring the rollout stops immediately and any equipment already operating at 4G+ levels is switched back to 4G.
2. **Undertake transparent safety testing** to determine the short, medium and long-term health effects of both the thermal and non thermal biological effects of existing wireless radiation and 5G. This should be transparently conducted by a genuinely independent qualified body with zero conflicts of interest. This is to be organised and convened within one month from the date of this communication.
3. Publicly distance yourself and **publicly condemn the fraudulent ICNIRP Guidelines** as being not fit for purpose.
4. **Undertake a full and frank investigation into the entire 5G roll out**, including the **Small Cell Antenna** and **LED deployments**, in order to establish how and why we have reached this point, with the current levels of our exposure to harmful wireless radiation.
5. **Immediately apply the Precautionary Principle** where any decisions are made with regard to the 5G mesh network.
6. **Send us** and publish a copy of the **full un-redacted Public Liability Insurance policy** that covers ALL harm caused by the Electro Magnetic Radiation emitting from these masts. As a public document, funded by our public bodies this is an obligation. Insurance underwriters such as Lloyds of London and Swiss Re have weighed up the risk of wireless radiation. Swiss Re class it as a future 'high-impact risk.' Lloyds of London specifically exclude harm from wireless radiation in their policies. In their information to shareholders, telecommunications companies warn about potential loss of share value due to future litigation related to the health risks of this untested technology.
<https://principia-scientific.com/lloyds-insurers-refuse-to-cover-5g-wi-fi-illnesses/>
7. **Send us** and publish copies of the **full un-redacted Environmental Impact Assessment** & the **full un-redacted Community Health Risk Assessment** on **each** and **every individual mast** to comply with legal regulations. As public documents, funded by our public bodies this is also an obligation.
8. **Send us** and publish full **un-redacted declarations** by **all telecom 'service providers' using Wirral**, that is including but not limited to Vodafone, Orange, EE and Three, **for each and every piece of hardware installed in Wirral**, including but not limited to **ALL** 140 listed masts, stating the **full purpose of the equipment**, the **full frequency bandwidth range of the equipment**, the **full capacity of the equipment**, the **full power density of the equipment** and the **full voltage gradient of the equipment**.
9. **Send us** and publish **under The Freedom of Information Act**, a **Full Disclosure Declaration** and **full un-redacted copies** of **ALL communications between Council officials** and the **various agencies** tasked with this roll out, to include **all government communications, all telecommunication company communications, all infrastructure company communications, all regulatory body communications, and ALL other further interested partners communications**, including the **entire LED upgrade campaign**.

This is in line with what various local authorities around the world have done.

WE DO NOT CONSENT.

11.5 Notice of Conditional Acceptance and Liability

NOTICE OF CONDITIONAL ACCEPTANCE AND LIABILITY FOR NON CONSENT, INJURY AND DEATH BY WIRELESS RADIATION

NOTICE OF CONDITIONAL ACCEPTANCE AND LIABILITY

SILENCE IS ACQUIESCENCE, AGREEMENT AND DISHONOUR.

THIS IS A SELF EXECUTING CONTRACT.

NOTICE TO AGENT IS NOTICE TO PRINCIPAL - NOTICE TO PRINCIPAL IS NOTICE TO AGENT

Dear

RE: WIRRAL 5G POLICY.

It is not my intention to harass, intimidate, offend, conspire, blackmail, coerce or cause anxiety, alarm or distress. This Notice of Conditional Acceptance and Liability is presented with honourable and peaceful intentions and is expressly for your benefit to provide you with due process and a good faith opportunity to remedy this most serious matter.

In relation to the UK Governments covert 5G Policy, you are hereby served notice that I conditionally accept that you are legally and lawfully entitled to facilitate the 5G roll out in close proximity to all of Wirral's residents, our homes, our schools, our shops, our medical facilities, our transport networks, our leisure facilities and our workplaces provided you deliver to me the following within 10 working days:

1) Material evidence, not hearsay or opinion, which proves beyond reasonable doubt that 5G technology is incapable of harming myself, my family, my friends and the people of Wirral, including, but not limited to breathing difficulties, oxygen deprivation, headaches, migraines, insomnia, nosebleeds, tinnitus, brain fog, chronic fatigue, neurological problems, blood clots, blindness, nerve damage, deafness, heart damage, cancer growth, autoimmune disease, allergies, fertility complications, etc and/or suffer any other form of harm, complication, or die as a result of being in close proximity to the high powered, radiation emitting masts that hold the capacity to project millimeter waves and micro waves within the frequency bandwidths between 900 MHz & 300 GHz. In the absence of this evidence, a pledge from the council to place an immediate cease and desist order or moratorium on any further work to upgrade the entire 4G+ and 5G mesh network and the LED programme, both hardware and software, and switch back to basic 4G levels.

2) Material evidence, not hearsay or opinion, which proves beyond reasonable doubt that 5G has undergone rigorous non industry backed full safety studies, thermal and non thermal. Should this not be the case, a pledge to begin full independent and transparent safety tests on both the thermal and non thermal biological effects of human exposure to the radio frequency radiation spectrum between 900 MHz and 300 GHz within one calendar month from the date of this notice.

3) Material evidence, not hearsay or opinion, which proves beyond reasonable doubt that 5G within full capacity will not harm or adversely effect me, my family, my friends and all of Wirrals residents. Should you not be able to provide this evidence, a wide reaching public statement from Wirral Council be issued condemning ICNIRP's dangerous and fraudulent guidelines as not being fit for purpose, and which have enabled the situation to reach this hazardous point.

4) Material evidence, not hearsay or opinion, which proves beyond reasonable doubt that 5G utilises safe technology that has no capacity to commit harm to me, my family, my friends and all of Wirral's residents. In the absence of this evidence, a commitment to urgently open a full investigation in to how and why we have reached this hazardous point, covering all aspects of the 5G mesh network deployment including 5G hardware and software, the Small Cell Antenna deployment and the LED installation, to be convened within 1 month of the date of this communication.

5) Material evidence, not hearsay or opinion, which proves beyond reasonable doubt that the council have employed the Precautionary Principle when deciding whether or not to allow me, my family, my friends and all of Wirral's residents to be unknowingly subjected to this untested technology which uses what the WHO classify as a 'possible' carcinogen.

6) Material evidence, not hearsay or opinion, which proves beyond reasonable doubt that the council have informed their Public Indemnity Insurers that there is a possibility that serious or fatal adverse events might ensue as the 5G network rolls out, in which case they may be liable for full damages due to many charges including but not limited to gross negligence, grave dereliction of duty, misconduct in public office, malfeasance & misfeasance in public office and perhaps even manslaughter.

7) Material evidence, not hearsay or opinion, which proves beyond reasonable doubt that the council has sought legal advice on whether it is lawful to allow this untested technology to permeate the peninsula, and have performed the appropriate Community Health Risk Assessments and Environmental Impact Assessments, which are statutory legal requirements.

8) Material evidence, not hearsay or opinion, which proves beyond reasonable doubt that you have in your possession, or have demanded, a full un-redacted declaration by all telecom 'service providers' and/or contractors for the 5G network rollout and the LED upgrade programme, including but not limited to Vodafone, Orange, EE, BT, Three, Openreach, Quinns, Kelly Communications, DT Hughes, NMCN, Commhoist, Centurion, Siemens, Huawei, Proxim, Harvard Engineering, Urbis Schreder, SSE for each and every piece of hardware installed in Wirral, including but not limited to all 140 listed masts stating the full purpose of the equipment, the full frequency bandwidth range and full capacity of the equipment, the full power density of the equipment and the full voltage gradient of the equipment.

9) Material evidence, not hearsay or opinion, which proves beyond reasonable doubt that all of your full un-redacted communications with all service providers and contractors for the 5G network roll out and the LED upgrade programme, including but not limited to World Economic Forum, United Nations, UK Government, UKHSA, PHE, OFCOM, BT, Openreach, Quinns, Kelly Communications, Vodafone, Orange, EE, Three, DT Hughes, NMCN, Commhoist, Centurion, Siemens, Huawei, Proxim, Harvard Engineering, Urbis Schreder, SSE remain honourable, lawful, transparent, diligent and done in the best interests of the general public, and therefore available for public examination.

Should you choose the path of dishonour by not providing the requested evidence within a reasonable time frame, you could render yourself liable, as you now cannot claim ignorance of these crimes, whether you learnt of them in this document or whether you had pre-knowledge.

This legal and lawful notice of liability may be used as evidence in court if needed and intends to enlighten you and protect you from attracting civil and criminal liability whether domestic or international and whether in an existing court or one to be convened under Natural Law Principles in relation to your action/inaction and all your omissions in relation to the 5G deployment and the measures that have been, and/or are being, taken within the United Kingdom and world-wide.

You may be held personally liable for and/or privately liable for and/or civilly and/or criminally liable for participating in unlawful, illegal and/or criminal activity and/or for supporting crimes against humanity, genocide, bio-warfare and/or failing to prevent acts so defined, including but not limited to acts that are purposely committed as part of a widespread and /or systematic policy, directed against living men, women and children committed in furtherance of government policy.

We may charge you for actively or tacitly paving the way for crimes against humanity to be perpetrated. You are hereby placed on notice that you stand to be held personally and individually responsible for causing foreseeable and preventable harm and death as a result of the 5G deployment, and for supporting future crimes against humanity, defined as acts that are purposely committed as part of a widespread or systematic policy, directed against civilians, committed in furtherance of state policy.

The gravity of your actions/inactions is now laid out in black and white. For the sake of yourselves and your families, rise and respond. Or go down in the history books in indelible shame and disgrace.

Please deliver to me these reasonably requested items within ten working days of your receipt of this notice, given the seriousness and urgency of the matters raised and the apparent speed at which these masts are being erected all over our borough.

I look forward to hearing from you without delay in signed writing.

In sincerity and honour, without ill will, frivolity or vexation,

FROM

Errors & Omissions Excepted.

All Rights Reserved.

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12.0 CONCLUSION

There is no doubt that 5G represents huge technological advances and massive opportunities to provide the world with an amazing platform to advance in so many fields.

We contend that this exciting development has been arrested by captured and corrupted agencies that do not hold our best interests at heart.

To summarise, we have compiled 41 important points to focus on and remember from this document (page numbers follow the points) which we also encourage you to research yourself:

1. There has been NO safety testing on this deployment of 5G technology that emits what the WHO class as a 'possible' carcinogen. *(The first test, which showed harm, was published 20 Feb 2022 as we went to print.) (p31)
2. Each substantial man-made increase in the earths electrical environment for the last 150 years has resulted in large amounts of suffering and death, usually from a respiratory illness. 5G is by far the largest increase in history. (p12)
3. The original RF exposure safety limit was derived from research conducted by a nazi scientist in the 1940's -50's. (p13)
4. Governments are now authorising the release of the ENTIRE electro magnetic spectrum, approximately 3000 frequencies, when they'd previously released about 40 frequencies over a 45 year period. (p15)
5. The huge densification of existing masts, small cell antenna, LED streetlights and mass installation of full fibre WiFi to enable 5G will result in all of us being subjected to unavoidable and dangerous levels of radiation. (p16)
6. The widespread use of wireless technology, with 5G's increased power and frequency range will put an end to Data Protection and personal privacy and result in the mass sale of personal data and the creation of an entirely new market. (p17)
7. 'Active Denial' is another of the Direct Energy Weapons available for use in the 5G toolbox. This weapon system was used on protesters against covid restrictions in Canberra recently. DEW's are thought to have been used in attacks on the Greenham Common CND protesters, the Catholics in Northern Ireland along with US Embassy staff in various parts of the world. (p26)
8. Dr Martin Pall has discovered the actual interaction that takes place when microwave radiation disrupts human cellular function. (p23)
9. 60 GHz is the frequency at which oxygen molecules oscillate. 90% of the transmitted 5G energy is absorbed by atmospheric oxygen, which alters the orbital properties of the electrons in the oxygen molecule. When disrupted the oxygen will no longer bind to the haemoglobin and myoglobin and so the red blood cells will not be able to carry oxygen to the cells powerhouse membrane, causing a shortage of oxygen. (p175)
10. Due to the new Phased Array capabilities of this technology, the millimeter wave and microwave radiation can now be directed in the form of concentrated energy into a beam, a millimeter in width, at any given target. (p25)
11. Boeing and Airbus both expressed serious concerns for the future of air travel to the US government due to the 5G 'C' band rollout, as they said the frequencies would disrupt the airplanes altimeters. (p27)

- 12.** Wuhan turned its 5G system on 1 November 2019. (p28)
- 13.** In 2011 the World Health Organisation (WHO) International Agency for Research on Cancer (IARC) classified Radio Frequency Radiation as a group 2B 'possible carcinogen.' (p31)
- 14.** Lena Pu discovered that 6 hours close exposure to a powerful school WiFi router caused a teachers blood to coagulate to such an extent that she could not place the 2 microscope slides together properly. (p35)
- 15.** Research from thousands of scientists going back more than 50 years shows biological harm from both low level exposure to non ionising radiation as well as high level exposure. Many mobile phones operate at 1.9 GHz. Allan Frey discovered that 1.9 GHz opens up the blood brain barrier, our brains protection from contaminants in the blood stream. (p35)
- 16.** Rubik and Brown discovered that wireless radiation causes an observable decrease in glutathione, the bodies master antioxidant. (p38)
- 17.** 5G's 1st and only safety study 20 Feb 2022, conducted in Sweden found that a married couples exposure level to radiation increased by 187 times from 9000 microwatts per metre squared to 1,690,000 microwatts per metre squared, when the 3G/4G antenna on their apartment roof was replaced with a 5G antenna. They both suffered symptoms of microwave syndrome. (p40)
- 18.** Children absorb more microwave radiation from wireless devices than adults as their brain tissues are more absorbent, their skulls are thinner and their relative size is smaller and they are thus harmed much more seriously. The ICNIRP guidelines are set for adults not children. 5G and the new millimeter wave technology will massively exacerbate this harm. (p41)
- 19.** Unlike any other industries products, the burden of proof rests not with the industry to prove their products are safe. That burden falls on the consumers, doctors and parents to prove it is not safe. (p46)
- 20.** The British government are planning on allowing telecom companies to bypass the planning laws when putting up new masts, by reclassifying them as permitted development. (p48)
- 21.** ICNIRP, who set the radiation exposure guidelines that most governments of the world use to justify all wireless technology and 5G have a 'No Liability' clause on their website and in their contracts and will not take responsibility for any errors. (p49)
- 22.** ICNIRP, who publish the safety guidelines all UK agencies rely on, suffer from endemic and blatant industry corruption. Of their 14 members, at least 8 have documented industry funding. (p52)
- 23.** To illustrate the disparity between genuine scientific consensus on radiation exposure limits and ICNIRP's exposure limits. Non ionising radiation becomes concerning for The Parliamentary Assembly of the Council of Europe at 1 mW/m². ICNIRP's equivalent limit is 9000 mW/m². (p55)
- 24.** Ofcom, UKHSA or government do not monitor radiation levels from masts. The companies are allowed to self monitor and self certify their own compliance. (p56)
- 25.** ICNIRP's thermal only guidelines are based on a six minute exposure of a mobile phone next to a human head. 5G will lead to 24 hour exposure of massively increased levels of non ionising radiation. (p49)
- 26.** The WEF and the UN formed a Strategic Partnership in June 2019, forming the worlds largest public private partnership, giving about 1000 of the worlds prominent corporations direct access to the UN and its national governments. Privatisation of the UN ? (p60)

27. We are all witnessing an accelerating drive to Build Back Better towards a Great Reset / Fourth Industrial Revolution that has 5G as its central architecture and will most definitely not be in our best interests.
28. The Internet of Bodies will mean the constant monitoring of our external and also our internal health. This will be performed using nanotechnology and will be inserted by ingestion, implantation or **injection**. (p59)
29. Some brave UK councils and worldwide countries and cities have stopped or slowed the rollout of 5G. (p67)
30. 100% of Wirral's operational masts are already emitting what the Parliamentary Assembly of the Council of Europe and the Bio-Initiative Guidelines deem as dangerous levels of radiation. 85% of Wirral's masts breach the level at which RFR induces pathological leakage of the blood brain barrier and immune disfunction. This is before 5G is fully activated. (p55, p71)
31. In August 2021, a US District Court of Appeals found in favour of Environmental Health Trust against the FCC. The judge ordered the FCC to explain why it consistently ignored scientific evidence showing widespread harm from wireless radiation at levels below the current limit. (p162)
32. Michael Mansfield is leading a UK team of barristers challenging the governments covert 5G deployment. (p164)
33. As Wirral residents, we have already been unknowingly subjected to at least 10 years of harmful levels of microwave radiation, a 'possible' carcinogen, that has not had any safety testing. These levels are about to explode. (p165)
34. UK Government was told was told 22 years ago that they must follow the Precautionary Principle with regard to Microwave Radiation emitted from Wireless Technology in the 2000 Stewart Report. (p47)
35. Tom Wheeler, the president of the US Regulator at the time, said instead of studying 5G, that 'turning innovators loose is far preferable to expecting committees and regulators to define the future.' (p56)
36. 5G is designed to support the Fourth Industrial Revolution or Great Reset and a 100% digital existence for all of us.
37. Despite government and industry assurances, ICNIRP and 5G are not connected. Their guidelines refer to regular mobile phone use, not 24/7 exposure to mobile phone antenna. Some people are exposed to EMR all day and all night in homes, offices, classrooms etc. One does not support the other. Their 1998 guidelines do not cover focused directed or targeted energy transmission in the air at the power levels that 5G will be capable of transmitting. Its akin to looking in the Bible for Liverpool's results.
38. The Judgment of the Turin Court of Appeal 904/219 of 3 Dec 2019 stated that 'acoustic neurinoma was caused by the working use of the mobile phone', and that 'scientists financed by the telephone industry as well as ICNIRP members are less reliable compared to independent scientists.' (p50)
39. Please read the speech by Boris Johnson on page 60, and clips of the speeches by Dr Yuval Noah Hariri, a top adviser to the WEF, on pages 64-65.
40. Please read and re-read Mark Steele's report on 5G on page 29.
41. In 2000, the UK Government auctioned off the 3G frequencies to telecom companies for £22.5 billion ! (p16)

With these assertions in mind, and the extensive evidence of widespread corruption and harm, your complicity will be confirmed by your lack of action.

The telecommunications industry, amongst others, has been vastly corrupted for many years now.

The inescapable conclusion from all of our research is causing us all a growing sense of serious alarm and distress. **URGENT ACTION** must follow. Chapter 11.4 must now be activated.

A moratorium **MUST** be activated and announced on **ALL** further upgrades of the entire 5G system. The Precautionary Principle **MUST** be applied immediately. Transparent safety testing **MUST** then be conducted by properly qualified and non compromised bodies in order to establish whether the levels of pulsed non ionising radiation we are all constantly being subjected to cause harm.

Quite how these tasks have not been performed already is simply astonishing and a **grave dereliction of duty from all of the recipients of this document**. Action from you on our behalf is now demanded. You are now aware of this grave and worsening situation. Should this call to action be ignored, you will be complicit and you will be held liable.

This all comes down to a simple decision regarding the future of our world.

Do we want to follow the future outlined to us by the United Nations and the World Economic Forum through our governments that the Fourth Industrial Revolution promises us, in which case we should just sit back and 'enjoy' the ride.

However if you think, as we do, that this brave new world does not represent a promising happy future for all of our children, then we must oppose 5G with **every fibre of our beings**, as without 5G this Great Reset into the Fourth Industrial Revolution is just not possible.

13.0 APPENDIX

CHAPTER 5 continued:

13.5.17 Significant Decrease of Clinical Symptoms after Mobile Phone Base Station Removal. Tetsuharu Shinjyo and Akemi Shinjyo 2014.

In 2014, Japanese physicians Tetsuharu and Akemi Shinjyo evaluated the health of the residents of an apartment building in Okinawa Japan, upon whose roof, 4G cell phone antennas had been operating for a number of years and then again after the antennas had been removed.

One hundred and twenty-two individuals, representing 39 of the 47 apartments, were interviewed and examined.

Prior to the removal of the antennas, 21 people suffered from chronic fatigue; 14 from dizziness, vertigo, or Ménière's disease; 14 from migraine headaches; 17 from eye pain, dry eyes, or repeated eye infections; 14 from insomnia; 10 from chronic nosebleeds.

Five months after the antennas were removed, no one in the building had chronic fatigue, no one had nosebleeds, no one had eye problems, only two people still had insomnia, one still had dizziness, one still had headaches and cases of gastritis and glaucoma had resolved.

Like the residents of that building before the study, the majority of the people today do not know that their acute and chronic illnesses are in large part caused by electromagnetic pollution.

<https://www.emfanalysis.com/wp-content/uploads/2015/10/Japanese-Study-2014-Significant-Decrease-of-Clinical-Symptoms-after-Mobile-Phone-Base-Station-Removal.pdf>

13.5.18 5G, 60 GHz, Oxygen Absorption, You and Coronavirus - Article. Doreen A Agostino 2021.

60 GHz is among the unlimited frequencies that are being auctioned off for industry to use as it sees fit. This article by Ms Agostino should serve as a platform for some honest diligent testing prior to rollout.

According to recent research, 60 GHz (60 billion cycles per second) is the frequency at which oxygen molecules oscillate. At 60 GHz, 98% of the transmitted 5G energy will be absorbed by atmospheric oxygen which then alters the orbital properties of the electrons of the oxygen molecule.

Oxygen the atom is O. Oxygen the molecule is O₂. 60 GHz causes electrons surrounding oxygen molecules to spin, akin to how high-powered microwave ovens running on 2.4 GHz impact molecules in food or water. They're heating, in part, by impacting those molecules to rotate or oscillate with each wave. The movement energy from the rotation of these super tiny water molecules helps heat the rest of the food. In a similar way that 2.4 GHz causes H₂O to oscillate, 5G/60 GHz even at low power, causes electrons in the oxygen molecules to spin, and changes to the spin frequencies on oxygen electrons can impact human biology.

When you breathe air into your lungs it gets oxygen into your blood, brain, tissues etc. and oxygen entering your lungs gets picked up by a very important iron containing protein called haemoglobin in your blood. The impact of oxygen molecules spinning the electrons is that it makes the haemoglobin unable to uptake the oxygen and get it to the rest of your body.

Oxygen molecules have electrons that they share with each other, oxygen is a diatomic molecule. We breathe two oxygen molecules bonded together with the electrons that they share. When the oxygen molecule is hit with

60 GHz waves, these waves affect the orbital resonance properties of those shared electrons. It is those shared electrons that bind to the haemoglobin in our blood.

When the oxygen is disrupted, it will no longer bind to the haemoglobin and myoglobin (oxygen carrying molecules) and therefore the red blood cells will not be able to carry oxygen to the cell's powerhouse 'membrane'. Without oxygen, the liver becomes congested, and the body and brain begin to break down due to slow suffocation. Because the brain is the body organ most sensitive to the lack of oxygen, not getting enough oxygen to the brain will result in brain hypoxia.

This research was misinterpreted by various media to create the headline that 5G causes Coronavirus. What it really meant is that certain frequencies on the licenced 5G spectrum have the potential capacity to cause the same symptoms as those noted as Coronavirus.

<https://www.nutritruth.org/single-post/5g-60-ghz-oxygen-absorption-you-and-coronavirus>

<https://www.youtube.com/watch?v=3F2BA2xZrY>

<https://emfharmonized.com/does-5g-at-60-ghz-stop-humans-from-absorbing-oxygen/>

13.5.19 The Influence of Being Physically Near to a Cell Phone Transmission Mast on the Incidence of Cancer.

Horst Eger, Klaus Uwe Hagen, Birgitt Lucas, Peter Vogel, Helmut Voit 2004.

This extremely important study shows how being physically close to cell-towers of any kind, can increase your risk of certain cancers. This is particularly important with the coming of 5G, as our proximity to these cell towers will be much closer and harder to avoid.

The study, conducted up until 2004 in Germany, looked at the case histories of 1,000 different patients between the years 1994 and 2004. They classified the participants into groups based on how close to cell-towers they lived. The study ultimately found that there was a significant correlation between how close people lived to these cell-towers and their risk of developing cancer. They wrote:

“The proportion of newly developing cancer cases was significantly higher among those patients who had lived during the past 10 years at a distance of up to 400 metres (1,300 feet) from the cellular transmitter site, which has been in operation since 1993, compared to those patients living further away, and that the patients fell ill on average eight years earlier.”

The number of, and strength of, cell towers has increased exponentially since this study was conducted.

<http://www.tetrawatch.net/papers/naila.pdf>

13.5.20 Thermal and Non-Thermal Health Effects of Low Intensity Non-Ionizing Radiation: An International Perspective.

Dominique Belpomme et al. 2018.

In a recently published, peer-reviewed paper, Dominique Belpomme and his colleagues criticize the WHO for its reliance upon ICNIRP and its members for expert advice. The paper claims that ICNIRP and its advisors have “close associations with industry,” and “conflicts of interest.”

According to the authors, ICNIRP and its advisors have been engaged in decades of “denial” of serious non-thermal effects of Radio Frequency-Electro Magnetic Frequencies in spite of overwhelming scientific evidence to the contrary.

Moreover, Belpomme and his colleagues criticize ICNIRP's safety limits:

"The specific absorption rate (SAR)-based ICNIRP safety limits were established on the basis of simulation of EMF energy absorption using standardized adult male phantoms, and designed to protect people only from the thermal effects of EMFs. These assumptions are not valid for two reasons. Not only do they fail to consider the specific morphological and bioclinical vulnerabilities of children, but also they ignore the effects known to occur at non-thermal intensities...."

Finally, they provide a summary of the peer-reviewed scientific literature that arrives at very different conclusions than ICNIRP's health risk assessment:

"It is urgent that national and international bodies, particularly the WHO, take this significant public health hazard seriously and make appropriate recommendations for protective measures to reduce exposures. This is especially urgently needed for children and adolescents. It is also important that all parts of society, especially the medical community, educators, and the general public, become informed about the hazards associated with exposure to EMFs and of the steps that can be easily taken to reduce exposure and risk of associated disease."

<https://pubmed.ncbi.nlm.nih.gov/30025338/>

13.5.21 Polarization: A Key Difference between Man-made and Natural Electromagnetic Fields, in regard to Biological Activity.

Dimitris J. Panagopolous, Olle Johansson & George L. Carlo 2015.

This explains how polarisation of man-made electrical fields differ from natural fields and that polarisation is a key factor which significantly affects biological activity. All wireless telecommunications systems work on pulsed/polarised signals.

Abstract: *"In the present study we analyze the role of polarization in the biological activity of Electromagnetic Fields (EMFs)/Electromagnetic Radiation (EMR). All types of man-made EMFs/EMR - in contrast to natural EMFs/EMR - are polarized. Polarized EMFs/EMR can have increased biological activity, due to: 1) Ability to produce constructive interference effects and amplify their intensities at many locations. 2) Ability to force all charged/polar molecules and especially free ions within and around all living cells to oscillate on parallel planes and in phase with the applied polarized field. Such ionic forced-oscillations exert additive electrostatic forces on the sensors of cell membrane electro-sensitive ion channels, resulting in their irregular gating and consequent disruption of the cell's electrochemical balance. These features render man-made EMFs/EMR more bioactive than natural non-ionizing EMFs/EMR. This explains the increasing number of biological effects discovered during the past few decades to be induced by man-made EMFs, in contrast to natural EMFs in the terrestrial environment which have always been present throughout evolution, although human exposure to the latter ones is normally of significantly higher intensities/energy and longer durations. Thus, polarization seems to be a trigger that significantly increases the probability for the initiation of biological/health effects."*

<https://www.nature.com/articles/srep14914>

13.5.22 Soviet Microwave Attack on US Embassy in Moscow 1953-76.

A real life experiment was unveiled in declassified CIA documents, when it was revealed that for 25 years, starting in 1953, the Soviets used low level RF Microwave radiation, one five hundredth of the power of the IEEE guidelines at the time to covertly attack the US embassy staff in Moscow, Russia. The ongoing irradiation campaign affected about 1,800 employees and 3,000 dependents housed at the embassy during this period.

The Russians targeted the U.S. Embassy with RF Microwave radiation weapons from 2400 to 4100 MHz (or 2.4 to 4.1 GHz) frequencies with wavelengths around 3 to 5 inches that are very similar to the wavelengths and power levels saturating us today where we live, work, go to school, commute and play.

It is not known, or at least not admitted, if the US resorted to similar attacks on the Soviets, but in 1970 the State Dept carried out a secret study on it called Project Pandora, and then destroyed the results. The very same adverse health outcomes inflicted on US embassy personnel (cancers, cardiac problems, neurological damages, altered blood cell counts, increased chromosome aberrations, elevated cancer in children and adults, and illnesses increasing in a dose-response manner with cumulative time of exposure) are being caused today by the use of and exposure to ubiquitous wireless mobile devices and infrastructure.

<https://ehjournal.biomedcentral.com/articles/10.1186/1476-069X-11-85>

13.5.23 ‘Vienna Syndrome’ & ‘Havana Syndrome.’

Since Joe Biden assumed office in January 2021, more than twenty US diplomats stationed in Vienna, Austria have reported unexplained health issues. The debilitating symptoms, including dizziness, vertigo, nausea, severe headaches, sudden sensation of heat, cognitive difficulties and even possibly possible brain damage - are consistent with what has been dubbed “Havana Syndrome.”

The difficult-to-diagnose ailment first struck US officials in 2016 in the Cuban capital, and since then, the victim list has grown to approximately 130 intelligence officers, military personnel and other American officials, mostly stationed overseas. The suspected cause of the disabling illness, according to the US National Academy of Sciences, Engineering, and Medicine, is “directed, pulsed radio frequency (RF) energy,” though it could also be multi frequency sonic or acoustic weapons.

<https://www.bbc.co.uk/news/world-europe-57875322>

<https://www.bbc.co.uk/news/world-us-canada-55203844>

<https://www.newyorker.com/news/news-desk/vienna-is-the-new-havana-syndrome-hotspot>

13.5.24 COVID-19 Attributed Cases and Deaths are Statistically Higher in States and Counties with 5th Generation Millimeter Wave Wireless Telecommunications in the United States.

Angela Tsiang and Magda Havas 2021.

Angela Tsiang and Magda Havas conducted the study referenced in the Rubik & Brown study (chapter 4.12). Their assessment clearly shows exposure to 5G millimeter wave (mmW) technology is statistically significantly associated with higher COVID-19 case and death rates in the USA.

<https://esmed.org/MRA/mra/article/view/2371>

13.5.25 Radiation from Wireless Technology affects the Blood, the Heart, and the Autonomic NervousSystem.

Magda Havas 2013.

Magda Havas, in her 2013 study showed that exposure to electrosmog generated by electric, electronic, and wireless technology is accelerating to the point that a portion of the population is experiencing adverse reactions when they are exposed. The symptoms of electrohypersensitivity (EHS), best described as rapid aging syndrome, experienced by adults and children resemble symptoms experienced by radar operators in the 1940s

to the 1960s and are well described in the literature. An increasingly common response includes clumping (rouleau formation) of the red blood cells, heart palpitations, pain or pressure in the chest accompanied by anxiety, and an upregulation of the sympathetic nervous system coincident with a downregulation of the parasympathetic nervous system typical of the “fight-or-flight” response. Provocation studies presented in this article demonstrate that the response to electrosmog is physiologic and not psychosomatic. Those who experience prolonged and severe EHS may develop psychologic problems as a consequence of their inability to work, their limited ability to travel in our highly technologic environment, and the social stigma that their symptoms are imagined rather than real.

<https://www.degruyter.com/document/doi/10.1515/reveh-2013-0004/html>

13.5.26 5G Technology and Induction of Coronavirus in Skin Cells.

Fioranelli M, Sepehri A, Roccia MG, Jafferany M, Olisova OY, Lomonosov KM, Lotti T. 2020.

In this research, they show that 5G millimeter waves could be absorbed by dermatologic cells acting like antennas, transferred to other cells and play the main role in producing Coronaviruses in biological cells. DNA is built from charged electrons and atoms and has an inductor-like structure. This structure could be divided into linear, toroid and round inductors. Inductors interact with external electromagnetic waves, move and produce some extra waves within the cells. The shapes of these waves are similar to shapes of hexagonal and pentagonal bases of their DNA source. These waves produce some holes in liquids within the nucleus. To fill these holes, some extra hexagonal and pentagonal bases are produced. These bases could join to each other and form virus-like structures such as Coronavirus. To produce these viruses within a cell, it is necessary that the wavelength of external waves be shorter than the size of the cell. Thus 5G millimeter waves could be good candidates for applying in constructing virus-like structures such as Coronaviruses (COVID-19) within cells.

This study was published on the National Institute for Health’s Pubmed site and then mysteriously retracted 8 weeks later.

<https://scienceintegritydigest.files.wordpress.com/2020/07/fioranelli.pdf>
<https://pubmed.ncbi.nlm.nih.gov/32668870/>

13.5.27 Planetary Electromagnetic Pollution: it is Time to Assess its Impact. The Lancet 2018.

A December 2018 review in the Lancet of 2,000+ peer-reviewed studies on the impact of wireless technology on human and animal systems revealed that 68.2% find significant biological effects. The Lancet review concludes:

“This weight of scientific evidence refutes the prominent claim that the deployment of wireless technologies poses no health risks at the currently permitted non-thermal radio-frequency exposure levels”.

[https://www.thelancet.com/journals/lanplh/article/PIIS2542-5196\(18\)30221-3/fulltext](https://www.thelancet.com/journals/lanplh/article/PIIS2542-5196(18)30221-3/fulltext)

13.5.28 Dr Andrew Goldsworthy.

Dr Goldsworthy has produced compelling, comprehensive accounts of the multiple effects of EMF’s, referencing over 70 scientific studies, covering the dangers of electromagnetic smog, and why the body is affected the way it is.

<https://multerland.wordpress.com/2020/07/05/andrew-goldsworthy-about-5g-and-covid19/>

13.5.29 Electro Magnetic Fields Portal.

The internet information platform EMF-Portal of the RWTH Aachen University summarizes systematically scientific research data on the effects of electromagnetic fields (EMF). The core of the EMF-Portal is an extensive literature database with an inventory of **34,868 publications and 6,941 summaries** of individual scientific studies on the effects of electromagnetic fields.

<https://www.emf-portal.org/en>

13.5.30 The Oberfranken Study - Documented Health Damage under the Influence of High Frequency Electromagnetic Fields

Dr. Cornelia Waldmann Selsam plus other German doctors 2005

These reports show that people for years have been ill due to pulsed high frequency electromagnetic fields, without the treating doctors recognising the cause. For that reason, people who are receiving the high frequency at home or at work have suffered and are suffering and they receive no therapy. The deciding [effective] therapy is to end the exposure.

The continually repeated assertion in the media by the German Radiological Protection Commission, that there is no proof for health risks under the present valid limits, has had the consequence that most doctors, (including myself until a year ago) have not drawn a relationship between the many unexplained illness patterns and high frequency radiation. The doctors do not know that at not one single mobile phone base station have investigations into the health-state of the people been carried out. Thus, the evaluation of the Strahlenschutzkommission in 2001 has no scientific basis.

In Oberfranken, we have just evaluated the medical complaints of 356 people who have had long-term [radiation] exposure in their homes.

- The pulsed high frequency electro magnetic fields (from mobile phone base stations, from cable-less DECT telephones, amongst others), led to a new, previously unknown pattern of illnesses with a characteristic symptom complex.
- People suffer from one, several or many of the following symptoms: Sleep disturbances, tiredness, disturbance in concentration, forgetfulness, problem with finding words, depressive mood, ear noises, sudden loss of hearing, hearing loss, giddiness, nose bleeds, visual disturbances, frequent infections, sinusitis, joint and limb pains, nerve and soft tissue pains, feeling of numbness, heart rhythm disturbances, increased blood pressure episodes, hormonal disturbances, night-time sweats, nausea.
- Even at **0.01 mW/m²** many people are becoming ill.
- The symptoms occur in temporal and spatial relationship to exposure. It is no way only a subjective sensitivity disturbance. Disturbances of rhythm, hearing problems, sudden deafness, hearing loss, loss of vision, increased blood pressure, hormonal disturbances, concentration impairments, and others can be proved using scientific objective measures.
- Some of the health disturbance disappears immediately the exposure ceases (removal of DECT telephone, temporary moving away from home, permanently moving away, using shielding).

Therefore, the expansion must be stopped immediately. Mobile phone base stations, in whose fields people are exposed to more than 0.1 mW/m² must be turned off. DECT telephones must be changed.

Affected people, relatives and doctors must jointly commit themselves and work together with all their energy to this end.

Evaluation of symptoms of 356 people under long time home exposure to high frequency pulsed electromagnetic fields (DECT, telephones, mobile phone base stations) versus the level of the power flux density in microwatts per square metre."

The symptom groups are defined as follows:

Group 1: No symptoms, Group 2: Sleep disturbance, tiredness, depressive mood, Group 3: Headaches, restlessness, dazed state, irritability, disturbance of concentration, forgetfulness, learning difficulties, difficulty finding words, Group 4: Frequent infections, sinusitis, lymph node swellings, joint and limb pains, nerve and soft tissue pains, numbness or tingling, allergies, Group 5: Tinnitus, hearing loss, sudden hearing loss, giddiness, impaired balance, visual disturbances, eye inflammation, dry eyes, Group 6: Tachycardia, episodic hypertension, collapse, Group 7: Other symptoms (Hormonal disturbances, thyroid disease, night sweats, frequent urge to urinate, weight increase, nausea, loss of appetite, nose bleeds, skin complaints, tumours, diabetes)

This is further evidence to support the potential adverse health effects that may be synonymous with the pulsed microwave technology that surrounds us in everyday life. Those in the medical profession are beginning to voice their concerns, and it is worth bearing in mind that they have first hand experience of real people with real problems. It is important not to discard this evidence due to lack of experimental control, as it seems that a number of qualified professionals have independently found the same trends. At the very least this should call for more organised research into these findings.”

We cannot locate a reliable pdf link for this study at this moment.

There are 1000's more studies we could quote to illustrate the unspoken certainty that microwave radiation has multiple harmful effects on humans, animals, plants and the wider environment, and the speedy roll out of this untested technology must be stopped.

13.6 Additional Information about Microwave Radiation, Wireless Devices and 5G

1. Every day of the year there is published peer reviewed research showing the EMF's cause serious health issues.
2. In 2009, Italian businessman Innocenzo Marcolini won a legal judgement against his employers citing protracted mobile phone use as the cause of his brain tumour. The courts based their decision on the research of Professor Lennart Hardell over that of ICNIRP. The decision was upheld in 2012 after his employers appealed.
3. In February 2020, Switzerland halted the 5G deployment process. They placed an indefinite moratorium on the use of 5G due to health concerns.
4. Professor Om P Gandhi produced a paper which concluded that microwave exposure into the brains of children turned the accepted safety standards for cell phones upside down. The industries reaction was swift - they cut off Gandhi's funding and set out to discredit him.
5. In April 2000, German mobile phone operator T-Mobil sponsored the Ecolog Institute to conduct a study on mobile phones and cancer. The report analysed dozens of peer reviewed studies concluded that phone fields and frequencies do play a role in the development of cancer, in particular tumours of the central nervous system. It also recommended existing safety thresholds should be cut to 1/1000th of those in force. T-Mobil buried the study and commissioned another to say there was no problem.
6. In 2004, in Poland, the Bortkiewicz study revealed sleep disturbance and loss of concentration in people living close to microwave masts.

7. Professor Olle Johansson of the Karolinska Institute in Stockholm, said *'If you put a radio near the source of EMF's you will get interference. The human brain has an electric field, so if you put sources of EMF's nearby, it is not surprising that you get interference, interaction with systems and damage to cells and molecules.'*
8. In 2000, the Swiss Agency for the Environment Forests and Landscapes produced a booklet for every citizen entitled 'Electrosmog in the Environment. The booklet addressed all of the issues of the day leaving nothing important out.
9. On 20th May 2007 Panorama screened 'WiFi, the Warning Signals'
10. Professor Girish Kumar a faculty member of the Electrical Engineering Dept at IIT in Mumbai said *"The 450,000 mobile towers in India are turning the country into an open microwave. Those living in a 50-300 metre radius face a high risk much worse than smoking as you cannot see or smell radiation. You cannot have coincidence everywhere. Biological effects include drying of fluids around the eyes, the brain, heart, abdomen, sleep disruption, headaches, lack of concentration and memory loss, prolonged exposure to mobile radiation increases the chances of cancer by 200-400% over 8-10 years and can also lead to miscarriages. The time has come when people have to wake up and realise associated health hazards from cell phone and cell tower radiation. The sooner they realise, the better it will be. Otherwise the high radiation from cell towers will affect millions of people, birds, animals, the fruit yield of trees, plants and the environment."*
11. Mahatma Gandhi said *'First they ignore you, then they ridicule you, then they fight you, then you win.'*
12. A child's brain is cased in a thinner skull and absorbs more radiation than an adult. Studies in Europe found the bone marrow of a child's head absorbs 10 times more radiation than that of an adult, whilst the brain tissue absorbs twice as much. *'Their skulls and brains are still developing and the radiation from cell phones practically cooks their brains'* said Professor Michael Herbst, head of health at Canca in South Africa.
13. Michael Bevington, head of Classics at Stowe School in Buckinghamshire, said *'I think the thing that shocked me the most was that up to that time, for about 50 years, I had thought the British government was on the side of the citizen, and therefore they would be looking after my interests. To discover that they knew what was going on, and they didn't warn me, there was no warning at all, I found more shocking than the thing itself. Yes, we live in one of the most undemocratic countries in the world'*
14. Russia, India, China, Italy, Switzerland, France, Hungary, Poland, Ukraine, Austria, Bulgaria, Lichtenstein, Luxembourg and parts of Belgium have all tightened their safety thresholds significantly. That's half the worlds population. Why not UK ?
15. Brian Stein CBE said *'ICNIRP and governments the world over have brainwashed us to think the only damage that can be caused by non ionising radiation is by the heating effect. That is the essence of the Microwave Delusion. Free radicals damage DNA. Non ionising radiation can create free radicals. Non ionising radiation can therefore damage DNA. Damaged DNA can cause cancer. What has Britain and America got to gain from denying that EMF's cause cancer, other than trillions of pounds and dollars.'*
16. The legendary Russian Professor Yuri Grigoriev said *'Man conquered the Black Plague, but he has created new problems - EMF pollution.'* and *'The effects of non ionising radiation are the same as ionising radiation, in slow motion.'*
17. Dr Gerard Hyland of the Dept of Physics at the University of Warwick said *'We are the experiment'*
18. Dr Sarah Starkey, a neuroscientist, reported in 2012, that 3 members of Public Health England were, or had been, part of ICNIRP.
19. In June 2019 Lloyd's Insurers were refusing to cover 5G and WiFi illness. Why, if it is impossible to be damaged by non ionising radiation, would insurers would pass up the billions of pounds available to insure

against something that ICNIRP, Public Health England (UKHSA) and industry say is impossible ?

20. There is one industry more powerful than the mobile phone industry - insurance. Lloyds, a world leader in specialist risk insurance and re-insurance, underwrites many kinds of risks for the dominant industries on earth - IT, defence, aviation, shipping, energy, manufacturing, have placed exclusions in their policies to not cover damages caused by the pathological effects of electro magnetic radiation. They said in 2010 *'The danger with EMF is that like asbestos, the exposure insurers face is underestimated and could grow exponentially and be with us for many years.'* Lloyd's syndicates now refuse to cover claims linked with RF Radiation. In 2013, Swiss Re said *'Over the last decade, the spread of wireless devices has accelerated enormously. This development has increased exposure..If a direct link to health effects were established, it would open the doors for new claims and could ultimately lead to very large losses.'* Then in 2014, they warned of large losses from the unforeseen consequences of electromagnetic frequencies, placing EMF's in the 'High' potential impact zone. Bermuda Re cited cell phones as a potential cause of *'the next asbestos,'* which had such catastrophic results for the industry in the 1980's. The Austrian insurance company AUVA commissioned experts to assess biological effects of mobile phone radiation. Non thermal effects were observed, *'..the demonstrated effects should not even have occurred, according to the strictly thermal interaction mechanism that would have been covered by current exposure guidelines.'*

21. Telecom manufacturers have it printed in the legal small print that a device must be held at least 5mm from the body, but not in the instructions.

22. Professor Martin Pall said *'The industry safety guidelines are bogus, fraudulent and totally unscientific. They don't protect us one iota. The effects within even 2 to 3 years will be absolutely stunning. 5G will push countries off a reproductive cliff. 5G will produce a crash in effective brain function in 5 to 6 years, utter chaos. Increases in early onset alzheimer's and other dementia's were likely, as was an epidemic in autism. The damage to our DNA and gene pool, to cardiac function, the ecology in general, could not be over estimated. 5G is a threat equal to a nuclear annihilation and must be stopped.'*

23. In June 2020 Michele Rivasi and Klaus Buchner, members of the European Parliament, commissioned, coordinated and published the report 'The International Commission on Non Ionising Radiation Protection. Conflicts of Interest, corporate interests and the push for 5G.'

24. Dr Ulrich Warnke, University of Saarland, Germany said *'For decades, research results have been freely accessible which show that the natural electric and magnetic fields and its variations are vital conditions for the orientation and navigation of a whole range of animals. Likewise, for many decades it has also been well known in science that we humans depend on these natural factors for numerous vital functions. Today however, this natural information and function system of humans animals and plants becomes superimposed by a never before existing density and intensity of artificial magnetic electric and electromagnetic fields of numerous mobile and communication radio technologies. The consequences repeatedly predicted over many decades by the critics of this development should now no longer be overlooked. Bees and other insects disappear, birds avoid certain places and are disorientated in other places. Man suffers from malfunctions and diseases and as these become hereditary passes them on as damages to the next generation.'*

25. In fertility research over 80% of studies show adverse effects of wireless signals on male fertility. PHE and ICNIRP regularly retort *'There is no evidence of ill health and microwave exposure below the ICNIRP guidelines'.* As more and more evidence emerges, their response changes to *'There is no consistent evidence of ill health and microwave exposure below the ICNIRP guidelines.'* As more consistent and repeated evidence emerges, the response changes again *'There is no consistent reliable evidence of ill health and microwave exposure below the ICNIRP guidelines.'*

26. In December 2012, the American Academy of Paediatrics wrote to Congress requesting an update on the safety levels of microwave radiation exposure to children and pregnant women *'The Wi-Fi systems in schools are typically 100's of times more powerful than the home computer systems you may be familiar with. They are also dozens of times more powerful than cafe and restaurant systems you may have been exposed to. The Wi-Fi systems*

in schools are necessarily more powerful any microwave communication systems in any other setting because they are required to run hundreds of computers simultaneously. They are also exposing children, most vulnerable to microwave radiation, to extended periods all day for their entire childhoods. This is an unprecedented exposure with unknown outcome on the health and reproductive potential of a generation. Children, who are required by law to attend school also require a higher degree of protection than the general public. You may be directed by proponents of technology that the science on the human health effects of Wi-Fi is not yet certain. That uncertainty is not a reason to subject a generation of children to such extreme exposure. Rather it is a foundation upon which caution must be exercised to prevent a potential public health disaster. While technicians and sales staff argue about the validity of the dangers posed by cell towers, cell phones, Wi-Fi and other forms of wireless radiation, it is the doctors who must deal with the fall out. Until we as doctors can determine why some of our patients become debilitatingly sick from Wi-Fi and other microwave communications, we implore you not to take such a known risk with the health of so many children who have entrusted you to keep them safe while at school. Hard wired internet connections are not only safer, they are stronger and more secure.'

27. It is not ethical to expose the public to electromagnetic fields, labelled in 2011 as '2B possible human carcinogen,' without first informing them of the risks.

28. Professor Denis Henshaw of Bristol University said '*There is a mis-match between our extensive scientific knowledge of the adverse health effects of exposures to EMF's of all forms, and the unwillingness of governments including the EU even to listen to the scientific advice from those most knowledgeable in the field.*'

Back cover photograph. Mast number 53 on Poulton Road in Seacombe.

“We are less aware that it breeds folly; that the power to command frequently causes failure to think; that the responsibility of power often fades as its exercise augments.

The overall responsibility of power is to govern as reasonably as possible in the interest of the state and its citizens. A duty in that process is to keep well-informed, to heed information, to keep mind and judgement open and to resist the insidious spell of wooden-headedness.

If the mind is open enough to perceive that a given policy is harming rather than serving self interest, and self confident enough to acknowledge it, and wise enough to reverse it, that is the summit in the art of government”

Barbara Tuchman,
The March of Folly: From Troy to Vietnam.

A low-angle photograph of a red brick building against a clear blue sky. Several white, rectangular mobile phone antennas are mounted on the roof. A bundle of black cables is visible on the left side of the building. The text is overlaid at the bottom.

*"The road to hell is
paved with good intentions"*

Old English proverb