



A practical guide to engage with the Community, Council, Doctors, Legal pathways & Telcos; to put the brakes on the 5G roll-out. Let's Stop 5G unless safety testing is conducted that ensures public health, wildlife and the environment are not at risk from harm. Scientific evidence proves the detrimental effects of electromagnetic radiation exposure, WE DO NOT CONSENT to more!

How to use this Kit: Please diligently cut and paste information to a new WORD document and ensure you update YOUR Council's name correctly. This pack is predominately addressing the Byron Shire Council and will need to be updated in many places in the templates.

SPECIAL THANK YOU to the many groups and individuals who contributed to this pack:

Barrister Raymond Broomhall, Environment & Community Safe From Radiation (ECSFR), Building Biology NSW, Stop 5G Northern Rivers, Stop 5G Mid North Coast, Stop 5G Tweed Heads, Stop 5G Northern Beaches and Stop 5G Adelaide for the specific content and collaboration. To the wider Stop 5G Movement and Groups around Australia **THANK YOU** for the endless inspiration and support.

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WHAT IS 5G?

THE FIFTH GENERATION (5G)
OF RADIO FREQUENCY
RADIATION IS NOW BEING
ROLLED OUT IN AUSTRALIA

WE ARE VERY CONCERNED THAT
THE INCREASE IN RADIATION
EXPOSURE BY 5G LEADS TO
DAMAGE THAT CANNOT BE
REVERSED

JOIN THE MOVEMENT TO STOP 5G

INTRODUCTION

5G has galvanised grassroots communities in Australia and globally into action, with a momentum that is truly astounding.

Despite a huge body of independent scientific evidence showing the negative effects of wireless and radiofrequency radiation, those in power have chosen to ignore, deny or even destroy these inconvenient truths.

The simple fact remains that health is a fundamental human right. We, our children, animals and plants need to be adequately protected. Commercial interests can no longer be prioritised. Industry and governments must be held accountable, or the damage for all of us will be unthinkable.

So, as we face the might of a trillion-dollar industry, the question remains: what can we do?

You're reading this information kit because you – and the community you represent – have chosen to act. Contrary to what we might be told, we are powerful. There are many examples of communities which had succeeded in putting the brakes on 5G. That list is only growing.

We've put this kit together because Stop 5G groups around Australia have asked us to share our strategies, resources and insights. Like all of you, we have no certainty what results our ongoing campaign will bring, but we'll certainly keep trying.

The list of templates, samples and resources you'll find here is a collective effort, compiled with the help of our affiliated groups across Australia. We hope you'll find them valuable in some way and plan to update this kit intermittently.

If you have any questions or feedback, please contact 5gfreeaustralia@gmail.com

Together we RISE,

The Stop 5G Northern Rivers NSW Media Group



WHAT COMMUNITIES CAN DO TO HALT THE 5G ROLLOUT: FIRST STEPS

1. Use the RFNSA (Radio Frequency National Site Archive) website to search for Australian Mobile Network base stations to find Electromagnetic Energy (EME) Reports and site locations in your area. Subscribe to the RFSNA notification service by entering your relevant postcode (<https://www.rfnsa.com.au/subscribe>).
2. Phone your council and ask them questions such as a copy of the DA or the development application. We have the right to this information. The department of education states they recommend that towers be distanced from schools up to 500m from school boundary.
3. Present your council with a simple and digestible information kit outlining actions it can take, legal considerations and what other councils across Australia and the world are doing. This includes asking your council to formally request for information from Optus, Telstra and Vodafone (under Clause 3.1 of the Mobile Phone Base Station Deployment Code) for as much information as possible about their forward project plans. (Refer to relevant section in "SETTING THE SCENE" page 14)
4. Scan for "public notice" signs that notify the community of an imminent upgrade to a mobile phone tower or installation of a 'low impact' device. These may appear in local newspapers for Telstra/ Optus/ Vodafone ads or public notice signs may be placed by Telcos at tower sites and on locations where "small cells" can be installed, such as street lights, power poles, rooftops and sides of buildings.
5. When notification of a proposed installation is published, the public have 10 business days to submit an objection (C564: 2018 Mobile Phone Base Station Deployment). A letter will need to be drafted listing reasons the community object to the proposed installation.
6. At this time, you will need to door knock on houses/ businesses close to the tower. You will need to explain to residents that a mobile phone tower 'upgrade' is proposed, how it will affect them, and request they sign a petition, including online petitions.
7. Submit the letter and the petition to your local and federal MPs, Council and the telecommunications carrier proposing the installation. Wait ten days for a reply.
8. If you are dissatisfied with the reply or don't receive one, you can submit a complaint to the ACMA (Australia Communications and Media Authority: <https://www.acma.gov.au/>). ACMA, in response to complaints from residents have issued formal warnings to mobile carriers for failing to meet the mobile phone base station deployment code, which requires consultation with residents in the immediate vicinity of the base station.

POWER IS WITH
the people

JOIN THE MOVEMENT STOP 5G

COMMUNITY ENGAGEMENT & 12-WEEK STRATEGIC PLAN

This checklist may or may not be relevant for your community, as it really depends on what the level of engagement has been to date. This strategic plan was developed and delivered by a core Administration group of approximately 3-10 people that changed over time in the Stop 5G Northern Rivers NSW group. The whole Stop 5G movement is a lot more established and cohesive now in terms of communication, strategy and content sharing. It's suggested that you use this guide loosely and jump around between the weeks to best serve your team and community. For example, in some communities it has been best suited to jump straight in to "legal pathways" (see Week 11) and address community awareness campaigns at a later date.

Week 1.

Create localised Facebook group

- Ask all members to invite their friends as a "call to action" to grow the page.
- Keeping the page closed is easiest while Administrators are getting use to the group dynamic and platform.
- Zero tolerance for trolling as it takes a lot of energy and time to manage.
- Closely moderate member requests for authenticity, connection to the area or member friends (in other words don't accept suspect requests).
- Share groups Mission Statement and Guidelines.
- 3-5 Administrators/Moderators are needed to manage the group while it is growing.
- Support respectful dialogue and redirect Members enquiries when able.
- Keep the page as educational and action driven as possible.

Week 2.

Action Group Meeting #1 – Initial meeting

- Advertise an Action group meeting on the FB page. Be clear it's not an info session. A smaller group is best to begin with (from 5-10).
- Round table introduction style and ask members to highlight their skill set and what has called them to the meeting.
- Take meeting minutes.
- Collate a list of ideas and tasks to be actioned over the coming weeks (leaflet design, poster design, venue booking for larger meeting).
- Gather all contact details and pick a date to meet again.

Week 3.

Create a Private FB group of the Action Group

- Share minutes of the meeting.
- Share follow-up of ideas and tasks.
- Cross-check leaflet design, content and poster styles with the core Action Group (templates all available in this kit).
- **Printing of Flyers & Posters**
- Pre-organise printing so it can be distributed to members at the next Action meeting (a few hundred copies at least).

Week 4.

Call to Action Meeting #2

- Create an Event page on FB and share with the wider Stop 5G members on the local FB page.
- Create and upload a meeting agenda (template provided).
- Be clear this meeting is for action and prepare key speakers to address the larger meeting.
- Film the meeting speeches for archival records and to upload to the FB to engage the wider community that did not attend the meeting.
- Speakers could address electro-magnetic sensitivity and ask to group turn off or put on aeroplane mode all phones prior to the commencement of the meeting.
- Outline the different Action Groups that will be addressed and that members will be asked to volunteer for (templates provided for key groups Secretary, Fundraising/Treasurer, Events, Multimedia, Communications/Media, Ground Force, Research). Ask for 1-2 members to nominate themselves as a leader, to converse with the core Admin group.
- Pick a date for a **Council Rally** around the next **General Council Meeting** date.
- Pick a date for the **Community Hearing Q&A** that falls after the General Council Meeting.
- **IMPORTANT** – this is the first fundraising event, hand a bucket around for printing donations (it should cover the printing that was just paid for).

Events Team

- Organise venues for up-coming events.
- Check all technical equipment requirements with the Multimedia Team.
- Liaise with Fundraising/Treasurer to know budget.

Multimedia and Media/Communication Teams

- Plan to document/film and live-stream all events if appropriate.
- Send our Press Releases to local news stations, radio, newspapers and Council (request Media Kit from Stop 5G Northern Rivers group).

Ground Force Distribution Team

- Organise market stalls at the local farmers markets and weekend markets (ask for free stalls for community education).
- Ground Force to all read public engagement document to support and prepare themselves (document supplied in this kit).
- Group leaders and members open a communication channel to easily communicate (Messenger, Whats App etc) about flyer distribution maps, pick-up points and drop-off for flyers.
- If funding permits you can pay for mail distribution through the post office in rural areas.

Fundraising/Treasurer

- Open a bank account with 2 signatories to deposit donations. Please refer to current Taxational laws in relation to Crowd Funding.
- Start arranging a HUGE raffle for the Community Hearing Q&A

Research Team

- Upload the most relevant and educational content to the FB page regularly. Quality scientific evidence and cross-checked content.

Secretary

- Start inviting expert panel for Community Hearing Q&A

Week 5.

Facebook group page

- Managing the FB page is a big team effort.
- Delegating roles is most efficient.
- Moderating the page is vital to keep quality educational material at the forefront.
- Move from an online educational setting to an inspired action based platform.
- Daily calls to action: email the local Mayor voicing concerns, contact local schools voicing concerns about Wifi in the classrooms, contact ARPANSA with concerns, contact Telcos with concerns, tell 5 people about 5g, share the stop 5g with friends by inviting them to join.
- Create Event Page on FB for **Rally** and share widely with an open setting on the event.

Week 6.

Action Meeting #3

- Key Admin address the members with an update on flyer distribution and all up-coming events.
- Prepare for Rally: discuss code of conduct, practice chants and create signage.

Rally

- Film event
- Quality PA for sound
- Invite community engagement; chanting, drumming, give space for the community to use their collective voice.
- Rally speech available (see Media Kit)
- Choose a prominent location for the Rally (outside Council or a Telco headquarters)
- Fundraise with a bucket for donations
- Engage with Rally members and ask them to sign-up for volunteering.

Week 7.

Action Meeting #4

- Core group meet and discuss Rally outcomes and prepare for Council presentation.

Present to Council

- Arrange filming if permitted for archival footage.
- Determine if the time available is a short public access (5 minute per speaker or per topic).
- Negotiate a longer presentation if possible.
- Council speech available (see Council Pack below)

STOP 5G NORTHERN RIVERS NSW - RALLY SPEECH

13 June 2019, Mullumbimby (Byron Shire Council)

Hello everyone,

It's really humbling to have us all gathered here – and to realise we truly are all in this together. And to see such a show of people in this beautiful Northern Rivers community.

Based on the last 15 minutes, we know that we have a voice, and we're not afraid to use it because in this instance, silence is consent.

So Stop 5G Northern Rivers NSW started as a conversation between a friend and I. That was only 5 weeks ago.

Since then, our Facebook group has attracted 1700 members. We know that so many community members have been compelled to find out more about the 5G rollout, which is already happening right as we speak in parts of Australia.

People who have never identified as activists... who have never used their voice for protest are being called to question and research and stand up on this issue. Thank you all for being here.

So what exactly is 5G wireless technology?

5G is transmitted via powerful 1mm microwave radiation frequencies that need infrastructure (such as towers, antennas, cell boxes, satellites) every 200 to 500 metres apart to ensure efficiency.

If the 5G installation goes ahead as planned, the environment, animals and people will be exposed to 50 to a hundred times stronger radiation than we currently experience on 3G and 4G networks – and existing wireless technologies.

Cities around the world – such as Brussels and Florence – have banned 5G due to health concerns and the lack of independent scientific studies to determine its effects.

According to the Environmental Health Trust, at least 21 cities in the US have passed ordinances restricting small cell installation and many are charging re-certification fees to make it unprofitable for the wireless industry.

Many other areas world wide are considering their positions as evidence mounts around the danger of this radiation.

In Australia, we're moving towards a 2020 nationwide roll out. And the technology has already been switched on across the coastal region of the Gold Coast and parts of Brisbane.

Telstra 5G modems have become available to the general public and the first 5G mobile device by Samsung is on the market. If the roll out is halted, it has been estimated that big telcos are set to lose an estimated \$6 trillion.

So today, I'm here for many reasons.

Firstly, I realised 20 years ago that I was sensitive to electromagnetic frequency (otherwise known as EMF). The idea of increased radiation exposure in the form of 5G technology is alarming.

I'm a mother of two young children. Children are scientifically proven to be the most susceptible to the harmful damage of electromagnetic radiation, along with the elderly, people who are sick, and the vulnerable.

As a registered primary school teacher, I believe it's unethical that Australian children are in learning environments with wireless technology set to up to 100 times higher than accepted and regulated levels in other countries.

As a sustainability professional and advocate for the environment, my concerns around 5G is that flora and fauna will be adversely impacted as a result of telcos and the Federal Government prioritising economic benefit.

The reality is that we're already exposed to high radiation levels through WI-FI and EMF pollutants. 5G, as the next generation of wireless technology, will only amplify this exposure.

Yes, we will get faster Internet. But if 5G successfully rolls out in this region, we will be assaulted by the unseen. I'm not talking hypotheticals now. The science is clearly in: EMR or Electromagnetic Radiation is harmful to humans, animals and the environment.

The Stop 5G Northern Rivers NSW group has a clear mission:

We are committed to raising community awareness about the implications of 5G technologies and the impact it will have on the environment, humans and animals. We encourage everyone to do their own research – to come to their own informed and educated decisions about the scientifically proven implications of the increase in EMF pollutants from 5G technologies.

We call for a moratorium on the 5G roll out in the Northern Rivers. We also call on Byron Shire Council to make a stand against any future roll out in this region and to take precautionary measures to safeguard the community. Let us set a precedent for action and awareness for the rest of Australia.

We call for independent safety testing and new regulations to protect the health of our communities and environment.

When we look at 5G wireless technology, the issue is multi-faceted and complex. There's simply not enough time here to address all the issues. Personally I've gone down the rabbit hole – and I know I'm not alone.

The purpose of this rally is to focus on 3 key issues: Safety, health and lack of public consultation.

Let's look at Safety first

So ARPANSA – the Australian Radiation Protection and Nuclear Safety Agency – is the organisation that advises the Federal Government on the current safe levels for radiation exposure. ARPANSA last did testing back in 2002 (17 yrs ago) even before 4G and certainly doesn't cover 5G technology.

ARPANSA has a disclaimer on its site that says that their information should only be used as a guide for education purposes and you should seek professional advice (ie. a doctor or scientist).

Its 'safe' level recommendation is significantly higher than any other country. However, its testing standards are flawed.

For example, ARPANSA's safety guidelines use short, rather than long-term exposure standards. The current guidelines are based on the thermal affects of a 6 minute exposure only.

The implications of this are obvious. They fail to take into consideration scenarios such as kids being exposed to WI-FI in the classroom daily and in their homes, to workers being exposed to levels continuously through their work and the list goes on.

Our group's second key concern is around HEALTH

More than 100,000 signatories from at least 187 countries have signed the 5G Space Appeal petition opposing the roll out of 5G technology, as of this month. These include scientists, doctors, environmental organisations and citizens.

There is widespread concern and a whole body of peer-reviewed studies that show there is a real and imminent threat to the future of our children and environment.

According to global experts, here are some of the health effects of existing EMR:

- 1.Cancer, sterility and miscarriage.
- 2.EMR is also affecting learning and memory, brain function and general well-being. Symptoms can also manifest as headaches, nose bleeds and skin rashes.
- 3.EMR also alters DNA, which obviously leads to a whole host of problems. I encourage you to research this for yourself.

I think we can all agree that one of the most amazing things about living in this part of the world is our opportunity to connect with nature. There are local and international studies that clearly state that 3G, 4G and wireless technologies are harmful to flora and fauna.

It's predicted that populations of birds, bats, bees and other insects will drastically decline if the 5G roll out is successful.

A study at the Nightcap National Park here in the Northern Rivers found that after the installation of 3G and 4G towers in that area, there was a mass exodus of bird species...and insect species dropped dramatically.

Finally, in all of this we shouldn't lose sight of the fact that there has been NO PUBLIC CONSULTATION

5G will result in a massive increase in inescapable, involuntary exposure to wireless radiation. In other words, you can't opt out.

The roll out has begun without any community consultation, or peer-reviewed studies to ensure the safety of the environment, animals and humans.

As I mentioned earlier, the first step is educating Byron Shire Council on the alarming worldwide concerns of 5G technology. We're calling on the council, telcos and the Federal Government to exercise a duty of care and adhere to the international policy of the 'Precautionary Principle'.

This Principle states an action should not be taken when there is scientific uncertainty about its potential impact.

So where to from here?

A community hearing Q & A with a panel of expert speakers will be held at St John's Primary hall, here in Mullumbimby, on Saturday, 29th June, from 2 to 4 pm. So those details again, 29th of June from 2 to 4pm.

After the rally, please sign our petitions and donate what you can to help us continue our collective efforts and community awareness campaign.

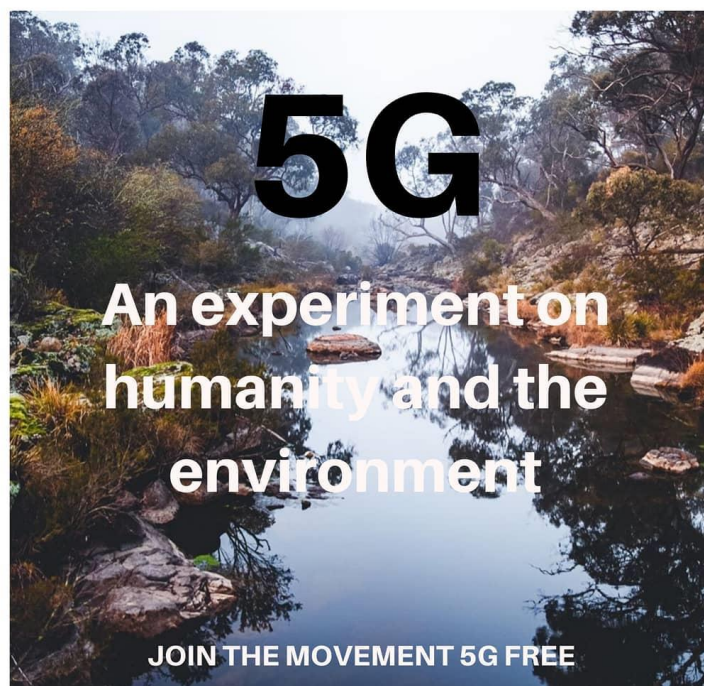
There's been a core team of volunteers essentially working around the clock. Up to this point, our focus has been on community awareness and education around 5G. What's needed now is to strategically move forward using legal pathways. We need administrators...we need experts... doctors, scientists, lawyers – and you – we need all of you – to help us in our next phase.

As we can see today, we are not alone.

In this time of critical change, it's essential to unite. To step up and take action. We're on the cusp of something big, like we've never experienced before. The impact of the 5G roll out is unprecedented.

This time next year, will the Northern Rivers be 5G free? The future is in our hands NOW! It's up to us!

Thank you.



PRESENTATION TO BYRON SHIRE COUNCIL

BY STOP 5G NORTHERN RIVERS NSW (27 JUNE 2019)

Due to time constraints, we'll assume that councillors have knowledge of 5G. For those of you who don't, we've included a list of resources which we'll give to you later.

Representing 2000 members across the Northern Rivers, I'm here to address a few key points:

- Hundreds of concerned residents attended the recent protest rally because they do NOT want 5G in the Shire. Our streets would be filled with thousands of tiny antennas pumping out inescapable wireless radiation 24/7.
- According to the 5G Space Appeal, "the deployment of 5G constitutes an experiment on humanity and the environment that is defined as a crime under international law". Over 100,000 signatories from at least 187 countries have signed, including scientists, doctors, environmental organisations.

Over the last 2-3 months:

- Brussels and Florence have refused permissions for 5G.
- Glastonbury council has for now opposed the 5G roll out.
- At least 21 US cities have passed ordinances restricting "small cell" installation, and many are charging "recertification fees" to make it unprofitable for the wireless industry. There are many more examples of cities putting the brakes on 5G.

The fact is Byron Shire Council is already aware of the harmful effects of microwave radiation after rejecting the Wilson's Creek 4G tower. Any decision council now makes to approve 5G towers or 5G small cell technologies will be made with prior knowledge of harm.

Byron Shire Council has a duty of care to invoke the Precautionary Principle and protect our community by halting the roll out of 5G unless it can be verified through rigorous, independent testing that this technology will have NO adverse impacts on public health and safety, wildlife and the environment.

What do we expect from council?

1. We call on council to refuse all planning applications for new towers and upgrades to existing towers and 'small cell installations' unless proven safe. We cannot rely on the integrity of ARPANSA's safety standards.
2. We call on council to investigate and use its powers under the Local Government Act, the Environmental Planning and Assessment Act, and the Mobile Phone Base Station Deployment Code, along with any other council legislation, to halt the 5G roll out.
3. Council has already committed the Shire to the Smart Cities and Suburbs Program, an initiative that's reliant on 5G. We call on council to immediately stop spending funds on Smart Cities and the surveillance technology that it is installing.
4. We request council undertake public consultation until the community is confident that 5G technology is safe.
5. We also request the council facilitate its proposed public information event (outlined in the mayoral motion to council – motion 3) before mid-August 2019.

Science shows that wireless radiation has detrimental health effects. There are no 5G studies to show it's safe. In summary, we cannot accept 5G unless it is proven safe.

Millions from all over the world flock to beautiful Byron to "chill out and slow down". 5G will heat us up and speed us up. It will manipulate the atmosphere and destroy the essence of what makes Byron unique.

5G and Smart technology not only affects the people opposing it, it will affect all of all of us.

Thank you.

Dear Stop 5G Advocate,

Thank you for reaching out to gain further information and to educate yourself and others on what can be done to Stop 5G in your community. This working document is a compilation of many groups working to halt the roll-out.

We have based the information on successful objections, and have carefully ascertained the validity of the different pathways suggested to object to 5G technology.

It is important to keep in mind that this Council Pack (pages 13-22) is a working document and will remain in a 'DRAFT' stage. As new information and strategic pathways open up, we will endeavour to send through updated documents when they become available.

Please note, you will need to carefully go through this document and edit the Council name **from Byron Shire Council or Council** to your relevant Council.

You will also need to check for significant land and buildings that come under "heritage" listing and update the relevant landmarks.

Prior to embarking on the journey of addressing your local Council, it is strongly recommended that you familiarise yourself with the **ECSFR website** with particular focus on the 'Take Action' section of the website and 'How to Stop a Telco Tower':

<https://ecsfr.com.au/take-action-2/>

Supply your local Council with the meeting minutes from the Planning Department of the Byron Shire Council that advised the Council to halt the Wilson's Creek Tower development in September 2018:

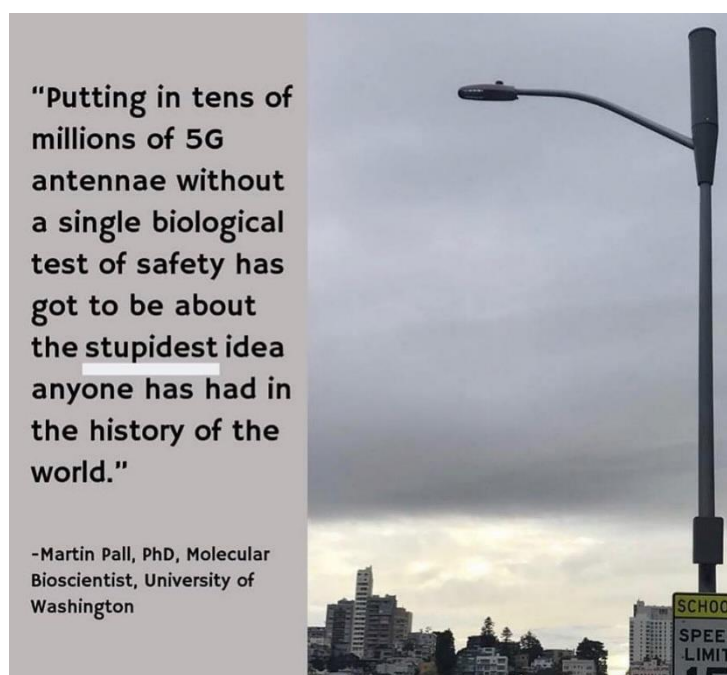
Click on **STEP 8** – Follow the DA process (letter attached): <https://ecsfr.com.au/take-action-2/>

When preparing for your Council presentation use the speech template

Click on **STEP 9** – Speaking Against the DA (Legal brief reminding Council): <https://ecsfr.com.au/take-action-2/>

This speech was delivered by the Chairman of the ECSFR, directed to the Planning Department of the Byron Shire Council. Please use this information to educate your Council face to face.

Respectful and personable human interactions is what will allow us to connect and help each other with this crisis unfolding locally, nationally and globally.



LETTER TO COUNCIL:

To **Byron Shire Council**,

Thank you for your interest in learning more about 5G, and investigating actions to ensure the health and safety of the **Byron Shire Community**. We believe 5G, the next generation of wireless technologies, is one of the most critical issues currently faced not just by our community, but the world.

It should be obvious by now that the 5G radio-frequency (RF) exposure levels will be higher than what we are currently receiving. Obvious because there will be more towers, more antennas, and more devices connected. To date no telco, no government, no regulatory body and no council can guarantee safety.

That is because radiofrequency fields used in current telecommunications and wireless technologies have demonstrated serious biological effects. Scientists warn of symptoms ranging from cellular DNA, infertility and cancer to insomnia, chronic fatigue, chronic pain, mood disorders, heart palpitations, and skin and eye problems.

Here are some critical things to note:

- **Dense network of small cell technology:** 5G millimeter waves (MMW) are short, high-frequency (30–300 GHz) electromagnetic radiation which travel shorter distances (a few hundred metres). Thus to achieve a seamless integrated wireless system, the “small cell” antenna are proposed to be placed about every 250m. At higher power densities, cell tower studies show that symptoms of microwave radiation sickness occur within about 300m of a cell tower. It is estimated that there will be millions of new mobile base stations deployed worldwide.
- **Low impact often means higher potential health impact:** The Minister for Communications can classify certain installations as “Low Impact” which then means that they do not require planning permission from local Councils. Low impact means low visual impact and has nothing to do with health, yet it is easier for telcos to install.
- **Scientific evidence demonstrating harm:** More than 10,000 peer-reviewed scientific studies demonstrate harm to human health from RF radiation. Other vital research supporting this view is available from the independent Oceania Radiofrequency Scientific Advisory Association Inc. (ORSAA), the BioInitiative Report <https://bioinitiative.org/>.
- **International call for halt to 5G:** In 2017, the 5G Space Appeal (now signed by more than 240 scientists and doctors from 40 countries) was submitted to the European Commission. The appeal recommends a moratorium on the roll-out of 5G until potential hazards for human health and the environment have been fully investigated by scientists independent from industry. As of July 30, 2019, 134,450 people and organisations from at least 198 countries have signed this appeal.
- **Links between funding & scientific bias:** While industry continues to state that evidence in relation to harm from RF-EMR is inconclusive, studies that review the sources of funding and scientific bias regarding mobile phones and brain cancer show otherwise. Huss et al. (2007) performed a systematic review regarding the association of mobile phone use and brain tumors in relation to funding. He found that industry studies showed a positive association 33% of the time, whereas non-industry studies showed an 82% association.
- **Studies are outdated and inadequate:** Current guidelines for non-ionizing radiation exposure were developed over two decades ago and are based on heating of tissues over short exposure periods (6 min for controlled and 30 min for uncontrolled exposure). There is international scientific consensus that the current 'safety' guidelines for radiofrequency electromagnetic energy used in wireless technologies are outdated and not adequate. There are no long term exposure guidelines, nor are there guidelines for low level, non-thermal or biological effects considered in the International Commission on Non-Ionizing Radiation Protection (ICNIRP) standards, which are the basis for standards used worldwide.
- **Children most at risk:** Research shows children, who are most sensitive, absorb more microwave radiation per body weight than an adult. However, standards were developed for adult bodies and no research has been completed proving the safety of RF levels under the current standard for children.

It is hard to believe that something that has been classed as a “possible carcinogen” by the World Health Organization (WHO) is completely safe.

Even if you believe the hype that 5G technology may have many unimagined uses and benefits, it is increasingly clear that significant negative consequences to human health and ecosystems could occur if it is widely adopted. **As with tobacco, the science was denied and doubt created until overwhelming research and evidence of harm decades later shifted the debate and protective regulations followed.**

On a whole other note, 5G will lead to a whole new Internet of Things, where everything from toasters to dog collars to dialysis pumps to running shoes will be connected. Remote robotic surgery will be routine, the military will develop hypersonic weapons, and autonomous vehicles will cruise safely along smart highways.

Adding more devices to the online universe is destined to create more opportunities for disruption. It’s a completely different threat that we’ve never experienced before. It’s surveillance, it’s AI, it’s untested, unsafe millimeter microwave radiation 24/7.

We urge Council to consider all these issues and take steps to protect the safety of the community. Included in this information pack are ideas on steps Council can consider taking in response to the 5G rollout by telecommunications carriers in **Byron Shire**. **We urge Council to obtain legal advice on this complex area as early as possible so that it is prepared for the proposed 5G rollout.**

We have also included examples of steps other councils across Australia and authorities worldwide have taken to adhere to the Precautionary Principle, along with a list of links and resources for further research.

We trust that together, Council and community can advocate for public health.

We look forward to meeting with Council to discuss this matter in more detail sometime in the next 2 weeks.

Sincerely,
Stop 5G Northern Rivers Group

SETTING THE SCENE

Telecommunications carriers are currently rolling 5G out across Australia. Their current focus is on cities, but there are already proposed 5G upgrades to towers in Tweed Heads, Kingscliff, Lismore and Goonellabah.

In recent months, telcos have been making 4GX upgrades to 32 Fletcher St and the Paterson Street water tank. There is still uncertainty regarding the reach and capabilities of these upgrades.

Telco representatives we have spoken to directly have given contradictory information. Some say the upgrades will simply enhance the existing 4G networks and are completely separate from the 5G rollout, while others have admitted that on some occasions 4GX is a precursor to 5G.

We believe any upgrades from here on in (usually described in public notifications as installation of 'panels' or 'antennas' rather than 5G) are being carried out to allow capabilities to be increased over time.

According to Physicians for Safe Technology, while 5G uses 10GHz to 300GHz, it will not just be using 5G short wavelengths to transmit data, but will integrate 5G with current 3G and 4G systems, with plans to add much of the remaining spectrum in the microwave frequencies.

Referring to the 5G rollout in the US, the Group says: “The actual 5G radio system, known as 5G-NR, isn’t compatible with 4G. But all 5G devices in the US, to start, will need 4G because they’ll lean on it to make initial connections before trading up to 5G where it’s available. That’s technically known as a “non standalone,” or NSA, network.”

So in other words, 5G will at least initially be a blend of previous generations of communications networks.

When proposing 5G upgrades to existing towers and small cell installations, carriers are only required to give Council and the public 10 business days to provide comments, and “have regard” to those comments before commencing work (with small cells

carriers, they must also provide a response to submitters and a timeframe for construction). In practice, this process can happen very quickly.

Bearing this in mind, we ask that you make formal requests for information from Optus, Telstra and Vodafone (under Clause 3.1 of the Deployment Code) for as much information as possible about their forward project plans (including plans that are in the early stages) concerning the deployment of Mobile Phone Radiocommunications Infrastructure in the Byron Shire, including but not limited to:

- 1) new towers and monopoles
- 2) new small cell installations
- 3) upgrades to existing towers to make them 5G ready
- 4) installations in/on street lights, utility poles, traffic lights and buildings; and
- 5) smart nodes.

This will give you earlier notice of proposed installations than the carriers would otherwise provide.

Key Facts About the Mobile Phone Base Station Deployment Code

- The Mobile Phone Base Station Deployment Code is designed to provide greater transparency to local community and councils when a Carrier is planning, selecting sites for, installing and operating mobile phone radiocommunications infrastructure.
- It also allows the community and councils to have greater participation in the decision-making process of Carriers when deploying mobile phone base stations.
- The revised Code sees a strengthening of consumer safeguards, especially in regard to the inclusion of small-scale infrastructure and replaces the C564:2011 Mobile Phone Base Station Deployment Industry Code.
- Under clause 3.1 of the Mobile Phone Deployment Code, Council can request information from carriers about their forward project plans concerning the deployment of Mobile Phone Radiocommunications Infrastructure, for the purpose of Council's forward planning.
- Carriers are required to provide Council with as much forward planning notice as possible.
- Providers must follow the Mobile Phone Base Station Deployment Code, which requires them to respond to submissions from councils and the public during the 'comment' period, as well as give a statement about their intentions and a timeframe for the start of construction. If providers do not follow the rules set out in the code, they may be issued a direction to comply, with further breaches subject to action by the ACMA (Australian Communications & Media Authority) that can result in formal warning or penalties of up to \$250,000.

For example, in May, the ACMA issued Telstra with a formal warning for contravention of clauses 6.2.6, 6.4.4 and 11.3.1 of the Mobile Phone Base Station Deployment Code (C564:2011), for failing to comply with rules for deploying mobile phone base stations

OTHER LEGAL CONSIDERATIONS FOR COUNCIL

Under telecommunications law, carriers are permitted to install and maintain certain types of equipment without local council approval. However, Council does have some decision-making authority when it comes to upgrading existing towers to 5G and installing small cells. Specifically, carriers may be required to obtain approval from Council for tower upgrades and small cell installations in areas of environmental significance. The power to install a facility without local council or State-based approvals may only be exercised by a carrier if the facility is a "low-impact" facility (as defined in the telecommunications (Low-impact Facilities) Determination 20181. Part 3.1 of the Telecommunications Determination provides that a facility in an "area of environmental significance" cannot be a low-impact facility. This means that when a carrier proposes to install a facility in an area

of environmental significance, local council or State/Territory planning laws apply. Areas of environmental significance are defined under Part 2.5 of the Telecommunications Determination, and can include environmental and heritage zoned areas.

Byron Shire Council has previously rejected the Wilson's Creek 4G tower. We ask that Council ensure the health and well-being of the local community, and environment, when responding to the coming 5G rollout by observing the following objects of the **Environment Planning and Assessment Act 1979**:

- to facilitate ecological sustainability by integrating relevant economic, environmental and social considerations in decision making about environmental planning and assessment
- to protect the environment, including the conservation of threatened and other species of native animals and plants, ecological communities and their habitats
- to promote the sustainable management of built and cultural heritage (including Aboriginal cultural heritage)
- to provide increased opportunity for community participation in environmental planning and assessment.

Council has power under the **Local Government Act 1993** to abate threats of 'public nuisance' that materially affect the reasonable comfort and convenience of the public or a section of the public (which we believe 5G installations will do).

Barrister Raymond Broomhall (Michael Kirby Chambers) has raised the possibility that the implementation of 5G without informed consent could open up carriers and governments to risk of civil and criminal liability in accordance with the **legal definition of assault**. The definition of assault includes the application of force by the use of any substance or thing including light, heat, electricity and electrical energy, and would include electromagnetic radiation from mobile phone infrastructure.

Scientific evidence suggests that we must treat radio-frequency radiation, and in particular cellular radiation, not only as dangerous to health generally, but also as a CARCINOGEN that is dangerous to life itself. So, when a small cell tower is placed "up close and personal" to people, those people must be regarded as under "assault" by a carcinogen. And, there are laws against assault. Further, since that assault can result in death, those people must be considered as under "assault with a deadly weapon". That is also against the law.

STEPS COUNCIL CAN TAKE TO SUPPORT THE COMMUNITY

Here are some other steps Council can take to support the community in objecting to 4GX or 5G upgrades or installations:

- 1) Council, along with the community, will receive notification of imminent upgrades to mobile phone towers or proposed installation of 'low impact' devices.
- 2) If the area is environmentally sensitive or heritage listed, Council can consider whether the proposed installation is in an "area of environmental significance" and the carrier is required to submit a development application to Council.
- 3) In instances where a Carrier has statutory power to install or upgrade a 'low-impact' facility without the need to obtain local council or State-based approvals, Council can make a submission to the carrier opposing the proposed installation (under the Mobile Phone Base Station Deployment Code). Council has a specified period of time (usually 10 days) to lodge an objection ([C564: 2018 Mobile Phone Base Station Deployment](#)).
- 4) During this period, Council can draft a letter to the telco proposing the installation or upgrade outlining their objections (*see sample letter on page 22*).
- 5) Council will be informed by the telco whether the installation or upgrade is proceeding or not.
- 6) If Council is not satisfied with the outcome, they can submit a complaint to the ACMA (Australia Communication and Media Authority).
- 7) Council can also consider contacting Federal Government Ministers to voice community concerns about 5G technology and call on the Federal Government to impose a moratorium on 5G deployment until it is proven to be safe.

WHAT AUTHORITIES IN AUSTRALIA AND THE WORLD ARE DOING TO STOP 5G

We urge Byron Shire Council to adhere to the Precautionary Principle and safeguard the people and environment from increasing radiation exposure from 5G. Here is a list of authorities in Australia and other parts of the world who are taking steps to prevent 5G (and 4GX towers) being deployed without proper safety testing.

Australia

Currumbin Valley Council

In latest news, Currumbin Valley Council in the Gold Coast voted to halt the proposed Telstra 4Gx Tower (late July 2019). The tower was set to be 36+ metres high and house 42 antennae, some 3 metres long and more to come with future upgrades and a co-location policy with other telco companies. The site is located in Koala habitat and is surrounded by state and locally significant vegetation. The Council decision was made in response to community lobbying and the presentation of 1024 petition signatures and 539 written objections to council.

Blue Mountains Council

In January, Blue Mountains Mayor Mark Greenhill agreed to write to the Federal Minister for Communications to check whether the community's environmental health is "being responsibly considered and assessed" in the plans for 5G.

Bathurst Council

Councillor Alex Christian of Bathurst Council said Bathurst Regional Council should also seek further information and would like to follow in the footsteps of Blue Mountains City Council.

Randwick Council

Council resolved on 16 October 2018 that the proposed roll out came at a time when international research reported a link between cell tower radiation and the development of cancer. Accordingly, Council called on the Federal Government to intervene and suspended the roll out, pending a review of the relevance of the international findings to the safety of residents in urban Australia.

<https://www.randwick.nsw.gov.au/about-council/news/news-items/2019/march/tpg-small-cell-towers-will-not-roll-out>

News item on the Randwick case:

<https://www.9now.com.au/a-current-affair/2018/extras/latest/180918/mobile-tower-warning>

Sutherland Shire Council

July 2019 – Sutherland Shire Council objects to small cells being deployed in Lilli Pilli

<https://www.theleader.com.au/story/6277213/council-appeal-over-telstra-base-cell-stations/?fbclid=IwARON3LTXZ0dZaXuZ0FI2T4ctX34LlV8ysZluYqV GmqrXkMG9IcfNRUUJBWl#slide=3>

Moonee Valley Council

See page 51 letter from Council saying they '... trust that TPG will recognise the concerns of the local community and give due consideration to Council's preferences regarding the placement of low-impact facilities within the City of Moonee Valley.

<file:///Users/viviandunstan/Downloads/Agenda%20for%20the%20Ordinary%20Meeting%20of%20Council%20to%20be%20held%209%20October%202018.pdf>

Victoria Park Council

A proposed 4G tower in Lathlain has been denied approval by Council citing reasons of environmental and health impacts arising from the insufficient information on the technology of the tower and the adverse visual impact on the surrounding locality after residents voiced their concerns.

<https://www.communitynews.com.au/southern-gazette/news/telecomms-tower-rejected-over-radiation-concerns/>

Kiama Council

Kiama Council Mayor is supportive of a moratorium on the 5G roll out until further research and discussion can take place.

Northern Beaches Council

23 July 2019 - Will be meeting in the near future to be informed on the effects of the new proposed 5G network and its effects on the community, the roll out in our area and any other related issues.

GLOBAL

United Kingdom

Glastonbury Council

In June 2019 Councillor Mike Smyth said: "This council has a duty of care to the people of Glastonbury and our environment, and we should protect them from potentially harmful situations."

<https://www.somersetlive.co.uk/news/local-news/glastonbury-council-opposes-5g-roll-2998413>

Glastonbury Town Councillors opposed the introduction of 5G technology in Glastonbury until further information has been obtained on the health effects on residents. At the Glastonbury Town Council meeting on Tuesday 11th June a motion proposed by Cllr Mike Smyth and seconded by Cllr Jon Cousins read as follows:

"This council has a social responsibility to protect the public and environment from exposure to harm ... and therefore opposes the roll-out of 5G in the Parish of Glastonbury – based on the precautionary principle – until further information is revealed from a newly convened 5G advisory committee (working group).....Town Council challenges 5G, June 2019

Trafford Council

Trafford Council Rejects 5G, News4Trafford, 11/02/2019

Italy

Florence

Florence applies the precautionary principle refusing permissions for 5G and referring to the 'ambiguity and the uncertainty of supranational bodies and private bodies (like ICNIRP) which 'have very different positions from each other, despite the huge evidence of published studies'.

Rome

XII Municipality of Rome, Italy A Municipality of Rome votes against 5G: what will the Giunta do? Terra Nuova, 28/03/2019
Municipality of Rocca di Papa, Italy 5G moratorium approved in Rocca di Papa (Rome), the city council deliberates on the precaution: "We do not authorize technologies that can aggravate the unhealthiness" EXCLUSIVE NEWS OASI SANA, 24/04/2019
Montecitori Palace, Rome, Italy Stop 5G: a parliamentary motion commits the Government to the moratorium, Ortica Web, 20/05/2019

As of June 24 2019 it is reported by Oasis Sana the following actions by Mayors and municipalities in Italy to halt 5G have been approved:

- Rome Capital City Hall XII APPROVED MOTION
- Municipality of Florence MOTION APPROVED
- Municipality of Rocca di Papa (Rome) RESOLVED APPROVED
- Municipality of Savignano Irpino (Avellino) RESOLVED APPROVED
- Municipality of Viareggio (Lucca) RESOLVES APPROVED
- Municipality of Cinto Euganeo (Padua) APPROVED RESOLUTION
- Municipality of Cervaro (Frosinone) APPROVED RESOLUTION
- Municipality of Fresagrandinaria (Chieti) MOTION APPROVED
- Municipality of Conca Casale (Isernia) MOTION APPROVED
- Municipality of Marsaglia (Cuneo) MOTION APPROVED
- Municipality of Sesto Fiorentino (Florence) MOTION APPROVED
- Municipality of Campiglia Cervo (Biella) RESOLUTION APPROVED
- Municipality of San Gregorio Matese (Caserta) PROHIBITION OF THE MAYOR AT 5G

6/24/2019 Oasis Sana: Mayors Stop 5G, here is the first Italian suspension order. And the list of 13 council resolutions and municipal motions for the precaution.

Switzerland

Vaud

The Swiss Canton of Vaud adopts a resolution calling for a moratorium on 5G antennas until the publication of a report on 5G by Swiss Federal Office for the Environment.

Geneva

Geneva adopts a motion for a moratorium on 5G calling on the Council of State to request WHO to monitor independent scientific studies to determine the harmful effects of 5G.

Cantons of Geneva and Neuchatel officials vote to halt the 5G rollout (no new permits) until safety is shown. Canton of Vaud also issued a resolution but has been reluctant to implement their resolution.

Switzerland to monitor radiation levels amidst 5G rollout.

“Switzerland will introduce a monitoring system to assuage concerns about the potential health impact of fifth-generation (5G) mobile frequency emissions and smooth the cutting-edge technology’s rollout, the government said on Wednesday.

The cabinet agreed to have the federal environmental agency measure levels of so-called non-ionising radiation, assess the risks and regularly inform the public about its findings.”

– Reuters April 2019

Switzerland to monitor radiation levels.

Geneva, Canton of Vaud, Geneva stops construction of 5G antennas, 20 Minutes Switzerland, 11/04/2019

Geneva, Canton of Vaud, Geneva blocks the erection of 5G mobile antennas, le News Switzerland, 02/05/2019

Cantons of Geneva, Vaud, and Neuchatel, Switzerland blocks the deployment of 5G telephony until its security is demonstrated, ABC Society, 14/04/2019

Canton of Vaud, Swiss canton blocks 5G mobile rollout, le News Switzerland, 11/04/2019

Cantons of Geneva, Vaud, and Jura, May the antennas be built or not? Cantons complain of 5G chaos, Aargauer Zeitung, 5/22/2019

ZURICH (Reuters) – Switzerland, Switzerland to measure RFR levels and monitor potential health risks posed by 5G networks, KFGO, 17/04/2019

Switzerland (Reuters), Switzerland to monitor potential health risks posed by 5G networks, It News, 18/04/2019

Netherlands

Members of Parliament in the Netherlands insist that radiation research must be carried out before any approval of the 5G network.

Chamber wants radiation research first, then 5G network, AD News, 04/04/2019

Russia

The Ministry of Defense refused to transmit to the operators the frequencies for 5G, Vedomosti, 28/03/2019

USA

Louisiana

State of Louisiana, USA unanimously voted to stop 5G calling for study of effects on health and environment before 5G starts.

Portland, Oregon

Portland, Oregon city officials state clear opposition to the installation of 5G networks around the city, supported by the Mayor and two commissioners.

Oregon

Oregon State Legislative Assembly in Senate Bill 283 declares health emergency. Directs State Health Authority to review studies of health effects of exposure to RF radiation in schools at least by reviews of peer-reviewed, independently funded studies and to recommend how to reduce children’s exposure in schools.

California

California Supreme Court Justices unanimously uphold a 2011 San Francisco ordinance requiring telecommunications companies to get permit before placing antennas on city infrastructure.

Notable Court Ruling on Small Cells, California Supreme Court Sides with Cities in Small Cell Faceoff, Government Technology, 05/04/2019

Mill Valley City Council, California

Mill Valley City Council voted unanimously to block cellphone companies from attempting to build 5G towers in the country and enacted an urgency ordinance to regulate ‘small cell’ towers.

Fairfax and Mill Valley California

Small cells prohibited in residential zones

Petaluma, California

No Small Cell shall be within 500 feet of any residence

San Diego County

No small cells located within 1,000 feet of schools, child care centers, hospitals, or churches

Mason, Ohio

No small cells in residential areas or within 100 feet of residential property

Burlington, Massachusetts

Annual recertification fees for small cells

Baton Rouge, Florida

Small cell deployment halted. May 30, 2019, Baton Rouge mayor hits pause on AT&T's 'small cell' towers after complaints from residents

ACTIONS PROPOSED IN US STATE

Louisiana Law Bill: Requests the Department of Environmental Quality in conjunction with the Louisiana Department of Health to study the effects of evolving 5G technology. To urge and request the Department of Environmental Quality in conjunction with the Louisiana Department of Health to study the environmental and health effects of evolving fifth generation cellular network technology (5G) and report its findings to the House Committee...WHEREAS, peer-reviewed studies on this topic show the potential for wide-range effects; and WHEREAS, 5G technology requires small cellular towers to be placed a short distance apart, closer than existing towers, at telephone pole height, and will operate in conjunction with the 3G and 4G technology infrastructure; and WHEREAS, the insurance industry may have placed exclusions in policies to exempt damage caused by this technology; and WHEREAS, certain manufacturers provide warnings to consumers regarding the reception of devices using this technology;..."

Proposed - *New Hampshire Bill 522:* An act establishing a commission to study the environmental and health effects of evolving 5G technology which asks "Why have 1,000s of peer-reviewed studies, including the recently published U.S. Toxicology Program 16-year \$30 million study, that are showing a wide range of statistically significant DNA damage, brain and heart tumors, infertility, and so many other ailments, being ignored by the Federal Communication Commission (FCC)?" and "Why are the FCC-sanctioned guidelines for public exposure to wireless radiation based only on the thermal effect on the temperature of the skin and do not account for the non-thermal, non-ionizing, biological effects of wireless radiation?"

Proposed – *Montana Joint Resolution 13:* "A JOINT RESOLUTION OF THE SENATE AND THE HOUSE OF REPRESENTATIVES OF THE STATE OF MONTANA URGING CONGRESS TO AMEND THE FEDERAL TELECOMMUNICATIONS ACT TO ACCOUNT FOR HEALTH EFFECTS OF SITING SMALL CELL NETWORK EQUIPMENT IN RESIDENTIAL AREAS" which states "the State of Montana has long valued its healthy environment and the well-being of its citizens; and the siting of modern small cell network infrastructure in residential areas can create radiation exposure risks for citizens; and section 704 of the federal Telecommunications Act of 1996 prohibits state and local governments from regulating wireless service provider infrastructure sitting on the basis of environmental effects. NOW, THEREFORE, BE IT RESOLVED BY THE SENATE AND THE HOUSE OF REPRESENTATIVES OF THE STATE OF MONTANA Congress be urged to amend the federal Telecommunications Act of 1996 to account for the health effects of sitting small cell network equipment in residential areas."

US CITY RESOLUTIONS

Hallandale Beach, Florida

Passes 5G Small Cell Tower Resolution: Read press release here. See the Hallandale Beach Florida Resolution here.

Greendale, Wisconsin Resolution No. R2018-20 in November 2018: The Board of Trustees of the Village of Greendale, County of Milwaukee, State of Wisconsin, passed Resolution No. R2018-20 in November 2018 in opposition to the FCC's September 26, 2018 Order because the Order's an unprecedented attack on local control of Greendale's largest asset, the public rights-of-way, for 5G technology; threatens the Village's responsibility to protect the health, safety, and welfare of its residents; and threatens the Village of Greendale's designation as a National Historic Landmark. The Village asked the FCC for changes that maintain a reasonable level of local control. The Resolution was sent to the FCC and State and Federal officials. Resolution No. R2018-20 Greendale Wisconsin RESOLUTION RELATING TO EXPANDED USE OF PUBLIC RIGHT OF WAY BY WIRELESS PROVIDERS FOR 5G TECHNOLOGY AND OTHER WIRELESS SERVICES, AND ASKING FOR CHANGES THAT MAINTAIN A REASONABLE LEVEL OF LOCAL CONTROL

INCREASING AWARENESS OF 5G HEALTH EFFECTS INTERNATIONALLY

Germany

BfS recommends careful 5G expansion, The Federal Office for Radiation Protection(BfS), 20/03/2019

Guernsey

Call to halt 5G technology in Guernsey due to health fears, ITV News, 11/03/2019

Malta

Brussels 5G scare sparks no action over Huawei in Malta, Malta Today, 12/04/2019

Citizen Petitions on 5G (not a comprehensive list there are many, many more)

5G Appeal for Scientists and Doctors

5G Appeal to Stop Deployment on Earth and Space

Australia

Stop the 5G Rollout in Australia Change.org – 55k+

Canada

Stop 5G from coming to Canada! Change.org

Estonia

We need to stop installing 5G technology in Estonia!, Rahvaalgatus.ee

Germany

Germans petition Parliament to stop 5G auction on health grounds, TELECOMPAPER, 08/04/2019

Republic of Cyprus

Stop 5G in Cyprus, AVAAZ.org Community Petitions

Switzerland

Petition against 5G and its dangers, Change.org

United Kingdom

Stop the Trial of 5G on the Isles of Scilly and Cornwall, 38 Degrees

Stop 5G in Bath and North East Somerset, Go Petition

The UK EM Radiation Research Trust call for urgent health & safety assessment on 5G, Change.org

Pause Bristol's 5G Rollout, 38 Degrees

**"ALLOWING THIS TECHNOLOGY TO
BE USED WITHOUT PROVING ITS
SAFETY IS RECKLESS IN THE
EXTREME"**

**– PROF. TREVOR MARSHALL,
DIRECTOR OF AUTOIMMUNITY
RESEARCH FOUNDATION,
CALIFORNIA, US.**

SAMPLE OBJECTION LETTER TO TELCOS

This letter can easily be adapted to become a community letter.

Byron Shire Council objects to the proposal to (type of work proposed by telcos) near (insert address) based on the following grounds:

- 3) The tower's appearance will cause a significant loss of scenic amenity to residents and visitors.
- 4) Based upon historical trends, the tower will adversely affect the value and saleability of nearby properties.
- 5) Residents in the vicinity of the tower will be subjected to levels of microwave radiation and Electro Magnetic Radiation ("EMR") scientifically proven to cause biological effects.
- 6) Numerous studies indicate that mobile phone towers adversely affect plants and wildlife through emitted radiation.
- 7) The Carrier has failed to notify all Interested and Affected Parties as required under the Mobile Phone Base Station Deployment Code.
- 8) If installed, there is a high probability that the mobile telecommunication equipment will be further upgraded in the future without adequate assessment of the risks to local residents from increased emissions or local council approval.
- 9) The proposal does not contain any limit to the number of Carriers using the mobile telecommunication equipment in the future adding further potential for emission of EMR to residents, again without adequate assessment of health risks or local council approval.
- 10) The Carrier has failed to have regard to minimisation EMR exposure to the public by selecting a community sensitive location within (insert metres) to (insert name of school).

Comments:

Name: _____

Address: _____

Date: _____ Signed: _____

Email: _____

TEMPLATE 1: OBJECTION TO COUNCIL ON THE IMPLEMENTATION OF 5G TELECOMMUNICATIONS

Dear Council of XXXX,

I write in relation to the planned implementation of the 5G cell rollout in our council area in general and near my (residential property/office/premise), in particular.

I am aware that wireless radiofrequency (RF) exposure has been linked to immediate and chronic illnesses including cancer, heart disease, infertility and neurological and genetic defects amongst many others.ⁱ This is substantiated in over 10,000 peer-reviewed scientific papers,ⁱⁱ including by the World Health Organisation, which classifies RF radiation as carcinogenic (cancer-causing).ⁱⁱⁱ

Therefore it is the current rollout of the 5G infrastructure, including new towers/tower upgrades as well as new 4GX/5G small cells/antenna or antenna and cells that will be used for the 5G roll out, which is of great concern to me, due to the amount and type of radiation these will emit, and the detrimental effect this will have on my health, and potentially on other residents of [suburb].

I include a letter from my General Practitioner (GP) in relation to the potential impact EMF radiation will have on my health. (ATTACH LETTER OF AVAILABLE)

I refer the council to a journal article by Cindy L. Russell M.D., entitled '5G wireless telecommunications expansion: Public health and environmental implications', which provides further information regarding the scope of the 5G network and its public health hazards. In addition, the 'EUROPEAN EMF Guideline 2016 for the prevention, diagnosis and treatment of EMF-related health problems and illnesses', explains the link between RF exposure and serious human diseases.

The opposition to the 5G roll-out is gaining traction in Perth, Australia wide, and other parts of the world. Recently Brussels, Geneva, as well as different States in America have moved to halt 5G rollouts in their cities due to the effects it would have on the health of its citizens.

I urge the council to consider its responsibility in ensuring the health, wellbeing, and safety of the citizens of [suburb]. The strongest evidence has impelled international experts to call for an urgent stop to the deployment of 5G technology. This should sufficiently warrant the council to take the precautionary principle and to do the same.

I am therefore asking the council to prevent any further expansion of 5G infrastructure in the city of [suburb] until further research can verify its safety. Specifically, I am asking the council to take action in ensuring that no 4GX or 5G small cell/antenna or any cells/antenna related to 5G technology will be installed near my premise [home/office/shop] and any existing ones to be switched off, and be removed immediately.

Please reply within the next 7 days with the actions the council will take to respond to my request.

Sincerely,

Name,

Address,

Email / phone

ⁱEUROPAEM EMF Guidelines 2016 for the prevention, diagnosis and treatment of EMF-related health problems and illnesses, Reviews on Environmental Health 2016,31(3).

ⁱⁱEMF-Portal. (The EMF-Portal is a project of the femu working group of the Institute and Out-patient Clinic of Occupational Medicine of the University Hospital RWTH Aachen. It systematically summarizes scientific research data on the effects of electromagnetic fields of radiation.)

ⁱⁱⁱWHO, IARC Classifies Radiofrequency Electromagnetic Fields as Possibly Carcinogenic to Humans, 2011.

^{iv}Cindy L. Russell M.D., entitled '5G wireless telecommunications expansion: Public health and environmental implications', Journal of Environmental Research, 11 April 2018, 165:484-495.

TEMPLATE 2 –

OBJECTION TO COUNCIL ON THE IMPLEMENTATION OF 5G TELECOMMUNICATIONS

I, (INSERT FULL NAME) of INSERT FULL ADDRESS, call on (INSERT COUNCIL AREA) to reject outright the implementation of 5G Telecommunications in the city of INSERT CITY, including the suburb of INSERT YOUR SUBURB and all surrounding suburbs for the following reasons:

In particular this tower (insert address of tower from RFNSA website) and any future towers planned.

1. There is already a substantial and convincing amount of scientific studies that show many adverse health effects and health hazards from radiofrequency/microwave radiation.

2. Check out a large number of peer reviewed research articles here <https://ehtrust.org/scientific-research-on-5g-and-health/>

<https://bioinitiative.org/> – 4000 studies

<http://www.justproveit.net/>– 1168 studies

<https://www.emf-portal.org/en> – 23,840 studies

<https://www.powerwatch.org.uk/> – 1,032 studies

3. Plus this study which cost \$25 million by the U.S. National Toxicology Program (NTP) clearly show that biological impacts occur at non-thermal exposures like those that take place from cell phones today. <https://ehtrust.org/clear-evidence-of-cancer-concludes-the.../>

4. Please also look at the ORSAA database <https://www.orsaa.org/orsaa-database.html>

5. In humans the effects of EMF radiation includes an increased risk of cancer, cellular stress, an increase in harmful free radicals, genetic damages, structural and functional changes of the reproductive system, learning and memory deficits, neurological disorders, and negative impacts on general well-being. But this type of damage goes well beyond the human race. There is growing evidence that it also harms plants and animals.

Therefore it is the current rollout of the 5G infrastructure, including new towers/tower upgrades as well as new 4GX/5G small cells/antenna or antenna and cells that will be used for the 5G roll out, which is of great concern to me, due to the amount and type of radiation these will emit, and the detrimental effect this will have on my health, and potentially on other residents of INSERT SUBURB.

I include a letter from my General Practitioner (GP) in relation to the potential impact EMF radiation will have on my health (MAKE SURE YOU ATTACH LETTER FROM YOUR GP)

Barrister Raymond Broomhall of Tasmania has raised the possibility that the implementation of 5G without informed consent could open up city councils such as (INSERT YOUR COUNCIL), to liability in accordance with the legal definition of assault. He conveyed this in his public presentation here <https://youtu.be/tLsHEVkn64>

Queensland Definition of Assault:

“Assault is defined in section 245 of the Queensland Criminal Code and includes actual forceful contact with another person or threatened forceful contact. In Queensland, physical assault will be made out if there is an act of striking, touching, or moving, or the application of force of any kind to another person, either directly or indirectly, without the consent of the person, or with their consent if that consent is obtained by fraud or duress. An act of threatened assault will be made out if, through any bodily act or gesture, a person attempts or threatens to apply force of any kind to a person without consent.”

It is important to note that the application of force includes the application of light, heat, electricity, smell, gas or any substance that will cause injury or personal discomfort.

http://www5.austlii.edu.au/.../.../consol_act/cc189994/s245.html

4. Furthermore, according to Broomhall, city councils may be liable for Orders to be issued against them under the Peace and Good Behaviour Act 1982. This Act aims to protect people's right to peace and quiet, undisturbed by threats to wellbeing or quality of life. People may request an Order if someone has threatened to assault (see 5. above) or do bodily injury to them or any person under their care and they are in fear of this person because of this threat.

5. ARPANSA, the Federal Government's Australian Radiation Protection and Nuclear Safety Agency, who set the safety standard limits for exposure to radio frequency (the technology 5G uses), say that the operation frequencies of the 5G network are included within the limits set by their safety standard. However the ARPANSA safety limit of 1000 μW (microwatts) per cm^2 up to 300GHz, was set in 2002 against a senate committee recommendation of 200 $\mu\text{W}/\text{cm}^2$ in 2001. This is despite many other countries such as China, Russia, Bulgaria, Canada and Poland having set the limit at 10 $\mu\text{W}/\text{cm}^2$; Switzerland has set their safety standard even lower at 9.5 $\mu\text{W}/\text{cm}^2$, and in sensitive areas 4.25; and, Austria has set the safety limit lower again at 0.0001 $\mu\text{W}/\text{cm}^2$ in certain areas.

Why is Australia's safety limit 100 times higher than many other countries?

ARPANSA have a disclaimer on their website stating that their advice should only be used as a guide for educational purposes and that people should seek professional advice (i.e. a doctor) regarding safe EMF radiation limits. If their advice is simply guidance, why is it the standard being adhered to for the 5G roll out?

In another article on the ARPANSA website, Dr. Karipidis says that the higher frequencies used in 5G technology will penetrate human tissue. He also acknowledges that there are gaps in this knowledge that require further research:

"ARPANSA therefore has made recommendations for areas where further studies are needed. The recommendations include research for frequencies above 6 GHz and for emerging technologies that use them like 5G."

Yet ARPANSA goes on to state that despite these gaps in knowledge, no health effects are expected from radio frequency exposures below the limits set in the ARPANSA standard. This is despite that there is a substantial and convincing number of scientific studies that show many adverse health effects and health hazards from radiofrequency/microwave radiation.

Studies as mentioned above.

Another consideration is that ARPANSA claim they are an independent organisation and yet they state that they receive funding from industry bodies. The Australian Senate inquiry (link below) raised the following concerns:

"It was contended that the telecommunications industry will try to influence research into electromagnetic emissions to show that there are no ill effects from its technology: If you are a researcher doing research that is being funded by industry, if you are coming up with results that are not what the company wants to hear, you will not get further funding. But if you give results that look good you tend to get further funding. So there is very much a bias to slant your research towards the person who is providing the funding. Some submissions have claimed that industry cover-ups and interference in the publication of research results, and selection bias in the choice of studies to be funded, are reasons for the failure to replicate many studies that have shown a relationship between EMR and biological and health effects."

ARPANSA on survey management and funding: <https://www.arpansa.gov.au/.../mobile-phone-base-station-surv...>

See section 3.102 on Australia's contribution to the "World Health Organization Electromagnetic Field Project": https://www.aph.gov.au/.../Completed_.../1999-02/emr/report/c03...

6. Lastly, rolling out 5G also breaks UNESCO's (the United Nations Educational, Scientific and Cultural Organisation) "Precautionary Principle", which states that:

"When human activities may lead to morally unacceptable harm that is scientifically plausible but uncertain, actions shall be taken to avoid or diminish that harm."

Rolling out 5G without a truly independent, impartial task force of scientists with zero conflict of interest to further research and understand the health implications associated with this new technology, flies in the face of this Precautionary Principle and breaks international law.

I urge the council to consider its responsibility in ensuring the health, wellbeing, and safety of the citizens of INSERT YOUR SUBURB. The strongest evidence has impelled international experts to call for an urgent stop to the deployment of 5G technology. This should sufficiently warrant the council to take the precautionary principle and to do the same.

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

I am therefore asking the council to prevent any further expansion of 5G related infrastructure in the suburb of (INSERT SUBURB).

Specifically, I am asking the council to take action in ensuring that no 4GX or 5G small cell/antenna or any cells/antenna related to 5G technology will be installed near my premise (ADDRESS OF HOME, OFFICE, SHOP) and any existing ones to be switched off, and be removed immediately.

I do not consent to these towers and am requesting a remedy and demanding that you issue an abatement order, please see attached my lawyers advice (ATTACH LAWYERS ADVICE, EITHER SEEK FROM RAYMOND BROOMHALL OR ANOTHER LAWYER)

Please reply within the next 7 days with the actions the council will take to respond to my request.

I urge you to take the time to review this information and consider our objection. With this information the health of our community becomes your responsibility.

Please see the information in this nation wide petition <https://www.change.org/p/stop-the-5g-rollout-in-australia-u...>

And this Senate Inquiry https://www.aph.gov.au/.../Completed_.../1999-02/emr/report/c03...

Yours Sincerely,

Name:

Address:

Email:

Phone:

5G IS BEING
ROLLED OUT WITH
NO TESTING
WORLD-WIDE
WE ARE
THE TESTING
GROUND FOR THIS

TEMPLATE 3: 5G FOI REQUEST & HOW TO LAWFULLY EXPOSE SMART CITY PLANS

All United Kingdom and Common Wealth residents can use this FOI (Freedom Of Information) request form as a template to send to Central Government, 4th Sector Organisations, Public entities, Local, District and Country Councils, Police and all Emergency Services to understand their 5G, GSM, WIFI and Smart Device plans, strategies and implementations, such as LED streetlight systems that we now know are being used as the method of deploying 5G in a town near you, totally under the radar, in practical secret and without so far as we can see, ANY UNDERSTANDING OF SAFETY REGULATIONS FOR THIS 5G TECHNOLOGY.

This FOI will give you and our community a National insight into how well resourced your Council is; who they are giving your money to; and how much you are being left in the dark by these unscrupulous companies/suppliers.

Please make sure you change [COUNCIL] for your own Council or entity. If you're using a Word-type package you can **Edit > Find > Replace > Type in [Council]** and replace with e.g.: **Gateshead Council > click OK >** You will see the change is done automatically.

Also, you do not have to use this template in full, you can take out sections, as you may only want to know about LED streetlights or 5G. Please note, some councils may require longer to find all the information, so be patient with them if you are asked to give them an extension. You can usually find the email to send this to in the bottom of websites.

Please share this across all your networks, let's SHOW THEM WE MEAN BUSINESS.

Original template found online: <https://smombiegate.org/5g-freedom-of-information-request-for-councils/>

Template starts here:

Dear [Council]

This is a Freedom of Information Request.

1. Do you have a 5G strategy?

1.1 If yes, I request to see the complete strategy, its ambitions and its objectives in PPTX, Word, PDF or picture format.

1.2 If yes, has the public had the opportunity to read and understand [Council's] 5G strategy? Where was this information published?

1.3 I also request a supplementary document that includes the highest level of detail on all 5G technology that's planned to be used and current in use in public spaces within [Council]:

(a) Companies and entities involved and the names of the company/entity officers.

(b) Specification sheets of 5G technology.

(c) What technology e.g. units and arrays are not currently 5G, but can be 5G enabled e.g. with current software, future software, hardware upgrades or retrofitting?

(d) What UK, EU and International safety standards is [Council] complying with for the 5G strategy and existing 5G technology.

(e) I request proof e.g. a certificate from [Council] that confirms that UK, EU and International safety standards for workers and the public have been met.

1.4 If no, I request to know when you will be chairing a 5G strategy?

2. I request the name/s of the Officer/s in charge of the 5G strategy and roll out for 5G and Smart Cities; and who their subject area expert or consultancy is, their CV and qualifications on 5G and Smart Cities.

3. Are you in talks with any experts, companies or entities about autonomous vehicles (AV) for public transport and/or private use on Public Highways?

3.1 If yes, I request to see the complete strategy, its ambitions and its objectives in PPTX, Word, PDF or picture format.

3.2 I also request a supplementary document that includes all levels of detail on:

(a) Companies and entities involved and the names of the company/entity officers?

(b) Specification sheets of all technology.

(c) What type of communication system will [Council] be utilising to control the vehicles?

(d) What UK, EU and International safety standards does your AV strategy and rollout comply with?

(e) I request proof e.g. a certificate from [Council] that confirms that UK, EU and International safety standards for workers and the public have been met.

4. Do you have a strategy for smart roads and smart signage on Public Highways and Public spaces?

4.1 If yes, I request to see the complete strategy, its ambitions and its objectives in PPTX, Word, PDF or picture format.

4.2 I also request a supplementary document that includes all levels of detail on:

(a) Companies and entities involved and the names of the company/entity officers?

(b) Specification sheets of all technology.

(c) What technology e.g. units and arrays will not be 5G, but can be 5G enabled e.g. with current software, future software, hardware upgrades or retrofitting etc (you must be specific on anything here)?

(d) What UK, EU and International safety standards does your 5G strategy and rollout comply with?

(e) I request proof e.g. a certificate from [Council] that confirms that UK, EU and International safety standards for workers and the public have been met.

5. Are you planning to rollout or have rolled out LED street lighting?

5.1 If yes, please answer these questions:

(a) What is the CMS and specification of the software and hardware of the LED street light system?

(b) What type of waveform is the LED? e.g. Square wave?

(c) Can you control the Pulse Width Modulation (PWM) of the streetlight system using the CMS?

(d) Can you control the PWM of each streetlight that's connected to the system?

(e) What restrictions do you have in place for the control of the PWM?

(f) What is the UK, EU and International safety limit (low and high) for the amount of 'flicker' (Hz) the Human Body and eyes can be exposed to and for how long?

(g) I request to see the training manual and safety operation manual for the CMS and the LED streetlight system.

(h) Who is the company who is or has installed the CMS LED streetlight system?

(i) What company maintains and repairs the CMS and LED streetlight system?

- (j) What entity and Officer is responsible for the safety standards for the CMS and LED streetlight system?
- (k) I request proof e.g. a certificate from [Council] that confirms that UK, EU and International safety standards for workers and the public have been met.
- (l) What is the amount of Blue Light leakage that's safe for the public and workers during the LED streetlights operation?
- (m) What level of LED streetlight exposure is safe for the public at daytime and night time?
- (n) Is there a legal requirement for diffusers to be fitted to LED streetlights?
- (o) How have you have addressed the amount of Oxidative Stress on Human and Animal cells that's produced from LED?

5.2 If no, then I request a declaration from [Council] that you will not be installing LED streetlights in the future. If you cannot provide a declaration, I would like the following answered in the future tense:

- (a) What is the CMS and specification of the software and hardware of the LED street light system?
- (b) What type of waveform is the LED? e.g. Square wave?
- (c) Can you control the Pulse Width Modulation (PWM) of the streetlight system using the CMS?
- (d) Can you control the PWM of each streetlight that's connected to the system?
- (e) What restrictions do you have in place for the control of the PWM?
- (f) What is the UK, EU and International safety limit (low and high) for the amount of 'flicker' (Hz) the Human Body and eyes can be exposed to and for how long?
- (g) I request to see the training manual and safety operation manual for the CMS and the LED streetlight system.
- (h) Who is the company who is or has installed the CMS LED streetlight system?
- (i) What company maintains and repairs the CMS and LED streetlight system?
- (j) What entity and Officer is responsible for the safety standards for the CMS and LED streetlight system?
- (k) I request proof e.g. a certificate from [Council] that confirms that UK, EU and International safety standards for workers and the public have been met.
- (l) What is the amount of Blue Light leakage that's safe for the public and workers during the LED streetlights operation?
- (m) What level of LED streetlight exposure is safe for the public at daytime and night time?
- (n) Is there a legal requirement for diffusers to be fitted to LED streetlights?
- (o) How have you have addressed the amount of Oxidative Stress on Human and Animal cells that's produced from LED?

6. Where do you have 3G and 4G systems in public spaces and public roads?

Yours Sincerely,

Name:

Address:

Email:

Phone:

BARRISTER RAYMOND BROOMHALL'S STEP-BY-STEP GUIDE:

THE FOLLOWING INFORMATION IS NOT LEGAL ADVICE – IT IS EDUCATIONAL MATERIAL

The homepage for the information below is found at: <https://emrlealeducation.com>

The videos and PDF documents can be accessed via:

<https://emrlealeducation.com/wp-content/uploads/2019/09/5G-Summit-Legal-Documents.pdf>

IMPORTANT PLEASE NOTE: There are 2 videos that must be watched in conjunction with reading the 22 Steps outlined below.

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Please note: This document and associated documents is intended to be for educational purposes only and is not intended to be legal advice and you should not rely on them as such. It is highly recommended that you seek legal advice as to the procedures and law as discussed in this document, associated documents and/or video. The authors and publishers accept no responsibility whatsoever for any loss or liability incurred as a result of failing to follow the recommendation aforementioned.

MAN MADE NON IONIZING ELECTROMAGNETIC RADIATION STEPS TO PREPARE EVIDENCE FOR LITIGATION and POTENTIAL REMEDIES

1. Identify the source of non-ionizing electromagnetic radiation (EMR) emissions or proposed emissions- Is it a mobile phone base station, communications tower, 5G (4G) small cell, SMART meter, WiFi router, HAPS drone, Satellite or other device?
 2. Identify the site where the emissions or proposed emissions will be irradiated upon - for example upon your home, workplace, school, hospital, retirement home, public transport etc.
 3. Measure and record the distance between you and the EMR emission device and/ or facility.
 4. Identify the emitter/proposed emitter, the installer, public relations, local council, and the land owner. Names of involved corporations and their respective ABN numbers, also include the names of directors of such corporations.
 5. In Australia you can find your mobile communications tower on the RFNSA website at <https://www.rfnsa.com.au> – type in your suburb, identify the tower, click on it and retrieve the EME report and compliance certificate to find the emissions or proposed emissions in your area. You can find telecommunication licences for emitters using HAPS and satellites on the Australian Communication and Broadcasting Commission's website.
 6. Is it an existing installation? - If yes – most likely it has already been approved by council or in the alternative it did not require development approval – contact council to confirm.
 7. Is it a proposed installation? - Does it require development approval? – contact council – if development approval is required ask council for the expiry date that any objection submissions are to be submitted by.
 8. Sometimes the emitter or proposed emitter will advertise to the public requesting submissions inclusive of deadlines concerning their installation as part of an industry public consultation processes – verify whether their consultation process forms part of a legitimate council development application or not.
 9. If the emitter/proposed emitter has been in contact with you via letter, notice etc collate all correspondence, including all correspondence you may have sent to the emitter also.
 10. Obtain a medical opinion as to whether or not the EMR emissions or proposed emissions are or could pose a risk of harm to your health. If risk of harm to health is advised, then request that the medical practitioner advise on recommendations as to what needs to be done to remedy the situation. Examples of recommendations might be that you are not be exposed to EMR emissions from the tower or device etc, use cable instead of WiFi, turn routers off etc. To assist you may wish to provide your medical practitioner with a link to the Bio-initiative Report 2012 (updated 2017) - A Rationale for Biologically-based Public Exposure Standards for Electromagnetic Fields (ELF and RF) <https://bioinitiative.org/> and the following link to Physicians for Safe Technology – 5G Mobile Communications <https://mdsafe.org> . You could also ask your doctor to refer you to a specialist medical practitioner who consults EMR patients on a regular basis, and even better one who has appeared in either a court or tribunal on EMR issues. Your lawyer may also be able to refer you to a medical specialist if needed.
- Please note: Attached are 2 samples of medical opinions that may assist to educate your medical practitioner found online at: <https://emrlealeducation.com/wp-content/uploads/2019/09/5G-Summit-Legal-Documents.pdf>

11. If the EMR emissions are from an existing installation - obtain witnesses who have mobile/cell or internet coverage. I.e. when they visit your home – do the witnesses have reception from their carrier? If yes, reception indicates that your home is being irradiated by their carrier. Witnesses can swear or affirm their testimony as evidence in an affidavit. See your lawyer for assistance on drafting an affidavit.
12. Contact a building biologist to conduct a report as to the level of EMR emissions in your home.
13. Obtains quotes for shielding purposes, such as shielding mesh, clothing, shielding paint etc to shield not only your person but also your house (inclusive of land). A building biologist should be able assist in this regard. (This will provide evidence to claim compensation for damage to property).
14. If you have the funds you could also obtain an independent radiation dosimetry report as to radiation levels emitted from the device or facility and SAR levels entering yours or your children's body.
15. Collate all documents as mentioned above and forward copies of evidence to your lawyer/attorney.
16. Instruct your lawyer/attorney to draft an advice for you on their letterhead as to your legal position, legal options, legal remedies, chance of success and pitfalls etc, – the advice may include opinion as to remedy concerning laws that apply the precautionary principle. The precautionary principle is an integral component in State or Federal policy and is usually found embedded in the majority of State and Federal legislation. The precautionary principle as a rule should be actioned when an activity raises threats of harm to human health or the environment, precautionary measures should be taken even if some cause-and-effect relationships are not fully established scientifically. Health risks associated with EMR though not fully established scientifically at present would still require precautionary measures to be taken by emitter and governmental decision makers.
17. Once you have a legal advice, send the said advice and the medical advice to your council and all parties such as the emitter, installers, land owners, inclusive of directors of the emitting companies involved. Attach a cover letter to your advices and call it an 'objection notice'. In the objection notice state that you 'do not consent to be irradiated with their EMR emissions and that you have established a reasonable belief and fear and/or apprehension that the emissions pose a risk of harm to health and a risk of damage to your property. Send by registered mail.
18. Lobby your councillors/aldermen. Send your objection notice to each councillor/aldermen within the council, try to meet with them to explain your situation.
19. Hopefully after receiving your objection notice, the emitters will tactfully withdraw from installing the facility and/or the council will issue an abatement notice against the emitters and/or reject any development application.
20. However, if the emitters and/or council decide not to heed your objection notice and make it known to you by a response letter to your objection and/or by their conduct (commence building and installing) that they intend to proceed with the installation or development then you may have various legal options available to you. If such an intention to proceed is made known to you and their intention to proceed caused you discomfort in the form of fear of harm and that they will irradiate you and your family, then such an action would constitute a threat to assault under section 75 of the Criminal Code Act 1889 (Queensland) for example.
21. The objection notice should provide the requisite evidence to enable you to apply various legal options and remedies. In the State of Queensland (Australia) for example some options and remedies include (but are not limited to);
 - I. **Civil** - abatement notices (environmental nuisance), personal injury claim (psychological injury), damage to property claim (home uninhabitable thus requires shielding), mandatory injunction (court order to force council to abate or prosecute the emitters).
 - II. **Quasi Criminal** - applying for Court ordered restraint orders (Peace and Good Behaviour Orders – also known in other States and Territories as Protection Orders and/or Apprehended Violence Orders, Keep the peace orders);
 - III. **Criminal** - prosecution of various criminal offences for trespass against the person such as;
 - o **Assault** - Section 245 *Criminal Code 1899* (Qld) Section 245 provides the definition of assault and indicates that a person who strikes, touches or moves or "otherwise applies force of any kind" to the person of another, either directly or indirectly without the other persons consent or "threatens" to apply force of any kind to the person of another

without the other persons consent under such circumstances that the person making the attempt or threat has actually or apparently a present ability to effect the person's purpose, is said to assault that other person and the act is called an assault. Please note that "applies force" includes the case of "applying heat and electrical force" or any other substance or thing whatever if applied in such a degree as to "cause injury" or "personal discomfort". Further note that to 'threaten' to apply force such as electrical force is considered unlawful and that it is not essential that a person threatened should be put in fear: an apprehension or expectation of assault is sufficient.

o **Threatening violence** *Criminal Code 1899* (Qld) Section 75 provides that any person who with intent to intimidate or annoy any person, by words or conduct threatens to enter or damage a dwelling or other premises; or does any other act that is likely to cause any person in the vicinity to fear bodily harm to any person or damage to property; commits a crime. Maximum penalty—2 years imprisonment. If the offence is committed in the night the offender is liable to imprisonment for 5 years.

o **Endangering life of children by exposure** - Section 326 *Criminal Code 1899* (Qld). Any person who exposes a child under the age of 7 years, whereby the life of such child is or is likely to be endangered, or the child's health is or is likely to be permanently injured, commits a crime. Maximum penalty—7 years imprisonment.

o **Assault occasioning bodily harm** - Section 339 *Criminal Code 1899* (Qld). Any person who unlawfully assaults another and thereby does the other person bodily harm is guilty of a crime and is liable for imprisonment for 7 years but if the offender uses a dangerous or offensive instrument the offender is liable to imprisonment for 10 years. A dangerous or offensive instrument is anything that is capable of being used for offensive purposes even though it is also capable of being used for innocent purposes see *R v Sutton* (18877) 13 Cox CC 648. An assault causing any hysterical and nervous condition is an assault occasioning bodily harm see *R v Miller* [1954] 2 QB 282. Bodily injury occurs if 'pain' has lasted for a couple of days then the body has suffered damage as defined in *Brown v Blake* [2000] WASCA 132.

o **Serious assault** - Section 340 *Criminal Code 1899* (Qld). Any person who commits an unlawful assault on a person who is sixty years of age or more and assaults any person who relies on a guide, hearing or assistance dog, wheelchair or other remedial device is guilty of a crime and liable to 7 years imprisonment.

o **Negligent act causing harm** - Section 328 *Criminal Code 1899* (Qld). Any person who unlawfully does any act, or omits to do any act which it is the persons duty to do so, by which act or omission bodily harm is actually caused to any person is liable to imprisonment for 2 years and may be arrested without warrant.

o **Duty of persons in charge of dangerous things** – Section 289 *Criminal Code 1899* (Qld). It is the duty of every person who has in the persons charge or under the person's control anything, whether living or inanimate, and whether moving or stationary, of such a nature that, in the absence of care or precaution in its use or management, the life, safety or health, of any person may be endangered, to use reasonable care and take reasonable precautions to avoid such danger, and the person is held to have caused any consequences which result in the life or health of any person by reason of any omission to perform that duty. It could be said that the substance or thing called EMR is a dangerous thing. The Carriers are in control of this dangerous thing and pursuant to 288 of the *Criminal Code 1889* they have a duty to control the said dangerous thing. Duty of person doing dangerous acts - Section 288 *Criminal Code 1899* (Qld) It is a duty of every person who, except in a case of necessity to do any lawful act which is or may be dangerous to human life or health, to have reasonable skill and to use reasonable care in doing such act, and the person is held to have caused any consequences which result to the life or health of any person by reason of omission to observe or perform that duty.

o **Common nuisance** – section 230 *Criminal Code 1899* (Qld). Any person who without lawful justification or excuse, the proof of which lies on the person, does any act, or omits to do any act with respect to any property under the person's control, by which act or omission danger is caused to the lives, safety, or health, of the public; or without lawful justification or excuse, the proof of which lies on the person, does any act, or omits to do any act with respect to any property under the person's control, by which act or omission danger is caused to the property or comfort of the public, or the public are obstructed in the exercise or enjoyment of any right common to all Her Majesty's subjects, and by which injury is caused to the person of some person is liable to imprisonment for 2 years.

22. Commencing legal action can be a complicated process, it has many pitfalls and can be a costly exercise, especially if you do not win your case. It is highly recommended that you seek legal advice to clarify your options and position before you take any steps and/or proceed in a court of law.

To:

Date:

Dear

WARNING & OBJECTION NOTICE

TAKE NOTICE that the warnings and objection contained in this notice is intended not only to protect myself, my family and my property but it is intended to also protect you and to warn you of your duty of care and to warn you of the possible consequences that any of your actions or omissions in regards to the emission of any non-ionizing electromagnetic radiation onto my land from your facility and situated at that is either in your possession, charge and/or directly or indirectly under your control and/or under your management. That failure to heed this notice has the potential to place you in jeopardy of being both criminally and civilly liable for any actions or omissions that cause harm, injury and damage.

It is clear that you are proposing to place* / have placed* devices on a tower on a neighbouring property* to my land with the intention to emit electromagnetic radiation onto my residential property without my consent. (*Delete what is not applicable)

I do not consent to you contaminating my land with your emissions of non-ionizing electromagnetic radiation. If you irradiate my home without my consent you will be met with Court action in both the criminal and civil jurisdictions to remedy. I am of the firm belief that any electromagnetic radiation emitted from your facility that you either directly or indirectly possess and/or manage and/or control has the potential to expose my family to unnecessary and unreasonable risks of harm to health and safety. Your actions may also render my home uninhabitable to my family due to electromagnetic radiation contamination. I firmly believe that you have a duty to ensure that electromagnetic radiation does not pose such a risk.

I have the right to use and enjoy my land without interference from you. I put you on notice that various statutes and the common law protects my right to the use and enjoyment of my land without any interference from you my neighbour. If electromagnetic radiation is irradiated from your land onto my land and causes my family or I any discomfort, injury or damage to either our person or our property then it would constitute an interference with the rights connected to the land and as such would be classed as a nuisance under both criminal and civil law. A nuisance can be remedied by either criminal prosecution, restraint via civil action or both.

Please note that simply following the Safety Standard as set by the Federal Government will not protect you from civil or criminal liability if you knowingly and intentionally fail to adequately address my fears concerning the health and safety risk as raised by my medical practitioner. The legal onus is on you and squarely on YOU to assess and improve the safety and health impacts surrounding your activities.

TAKE NOTE: IT WOULD BE A NEGLIGENT ACT IF YOU WERE TO EMIT ELECTROMAGNETIC RADIATION ONTO MY LAND AFTER HAVING BEEN GIVEN NOTICE OF THE WARNING AS CONTAINED WITHIN THIS NOTICE. ESPECIALLY AFTER YOU HAVE NOW BEEN INFORMED THAT SUCH AN ACTION COULD POSE RISK OF HARM. IF HARM DID EVENTUATE THE COURTS WOULD SEE THAT SUCH HARM IS REASONABLY FORESEEABLE, ESPECIALLY CONCERNING ANY PSYCHOLOGICAL HARM AGRAVATED BY MY REASONABLE FEAR.

Please find attached a medical advice from my medical practitioner outlining risk of harm to health and recommendations to mitigate such risk. The medical advice has contributed to the formation of my reasonable belief and fear that the emissions from the facility pose a real risk of harm to my family, myself and my property thus I am afraid of you and your intentions to emit. Also find attached a legal advice from my lawyer outlining the potential civil and criminal liability that could apply if you do not heed this notice and attached medical advice. I rely on both the legal and medical advice as attached.

I DEMAND that you discontinue any attempts by you or your agents to emit electromagnetic radiation upon my residence. I respectfully request that you inform me immediately of your decision as to whether or not you will proceed to emit electromagnetic radiation onto my residence. If you intend to disregard my fears, concerns and the medical advice and make it known to me by either letter or conduct that you will proceed regardless then I will treat such intentional conduct as an intentional threat to physically assault my family and myself with electromagnetic radiation.

Please note that if you fail to respond within 14 days from the date of this letter then it will be deemed by your omission to respond that you intend to irradiate my land. I will therefore have no choice but to seek remedy in a Court of law.

Yours sincerely,

INFO SHEET: A GUIDE FOR GP APPOINTMENT

A Guide that can be used by individuals on how to approach your GP to:

- 1) Report your claim of 'fear of harm' and 'risk of harm' to your health from exposure to electromagnetic radiation (EMR)
- 2) Seeking a doctor's medical opinion to validate your claim.
- 3) "Obtain a Medical Opinion" outlined in Barrister Raymond Broomhall's 13-Step Action Plan. If a medical opinion can not be offered by a GP, then simply ask your doctor to complete the GP Proforma to certify your claim. You are NOT seeking a medical diagnosis of electromagnetic hypersensitivity (EHS).

This approach includes a GP Info-Pack and GP Pro-forma template. A GP may prefer to use their own words and format when providing written confirmation that certifies your reported claim, AND/OR when providing a written medical opinion, as applicable. This information is provided for guidance only and relied on at your own discretion. The contents within is not Legal or Medical Advice.

STEPS

1. Get Prepared
2. First Appointment – Verbal (consider booking a long consult) – report your claim of fear of harm, and risk of harm to your health.
3. Follow-up appointment, if required (1-2 weeks later) – To obtain the written medical opinion / report.
4. Remember you are *NOT SEEKING A DIAGNOSIS OF EHS*

Before your appointment, get prepared and study this guide and the contents of the GP INFO-PACK.

(TAKE WITH YOU) Print out the GP INFO-PACK coversheet and the GP Pro-Forma

(OPTIONAL) You can print out 1-2 handouts to take with you to leave with your doctor at your first appointment to solicit their attention. For example, any of the following, or you may have other credible sourced information you wish to share.

- a. BioInitiative 2012 Summary for Public
- b. BioInitiative 2012 Conclusions Table 1.1
- c. BioInitiative 2012 Biological Effects RF (Colour Chart)

First Appointment

Keep it simple, in a conversation with your doctor, address the following key points:

STAY CALM AND FOCUSED

1. State your fear of harm and risk of harm to your health from EMR (proposed increases of EMR from Stop 5G rollout) in your neighbourhood / workplace, etc (your environment). You may mention the source of EMR radiation/ emissions that may include, (existing or proposed) 4G/ 5G towers, small cells, Wi-Fi, hot-spots, smart cities", etc. ("the identified source").
2. State that you have done your own research and found a large amount of peer reviewed scientific studies that shows biological harm. Give hand-outs.
3. Ask your doctor if they could look at these scientific studies and you will make a time for another appointment and that you would then like their medical opinion as to whether EMR are safe or not. Ask that you would like this in writing.
4. To assist your doctor, inform them that you will provide them with further information (i.e. GP INFO-PACK PDF). Give the doctor enough time to look at the information about 1-2 weeks.
5. You can email the GP INFO-PACK PDF to the clinic (after your appointment) but consider saving the file to a USB drive that you can leave with the doctor at your first visit for convenience.
6. Let the doctor know that you are following APARNSA's advice to seek medical advice for your health concerns. That's why you are "here today".
7. If the doctor, cannot assist with giving a medical opinion. Ask your doctor to simply complete and sign the GP Pro-forma to confirm that you have reported your concerns.
8. Inform your doctor that you will consider submitting a Health Complaint Report to ARPANSA's Public Health Complaints Register. This may add more weight to your claim. EMR Health Complaint Form is available for download. Members of the public who believe they have suffered ill-effects as a result of exposure to EMR can lodge a written complaint to the register.

OPTION 1: Provide GP INFO-PACK AT THE FIRST APPOINTMENT (on USB) OR EMAIL IMMEDIATELY AFTER YOUR APPOINTMENT

OPTION 2: If you prefer, email GP INFO-PACK TO YOUR DOCTOR AT LEAST 1 WEEK BEFORE YOUR FIRST APPOINTMENT. You will need to explain why you are sending this information to the doctor in advance to your appointment. (Refer to points 1 – 5 above). This option may work better if you know your doctor well.

Additional Information

Further points you may consider that may help you get a more effective outcome.

9. You are also concerned about the risk to your family's health been so closely exposed to RF emissions for prolonged periods of time and the wide spectrum a potential health risk.

10. Let the doctor know that you have already taken measures to reduce exposure to RF emissions to protect yourself and your family around the home. But you also seek recommendations from the doctor that will provide further precautionary measures and recommendations to mitigate your exposure to the RF emissions (and proposed emissions) in the long-term.

11. If you wish to describe, your symptoms, talk about how and when you experience these symptoms. Include when symptoms are reduced / alleviated when you are not around the EMR emitting sources.

12. If you have a medically diagnosed condition, then, you fear that your health could be affected further.

13. If the doctor starts discussing "treatment options" for your symptoms, then redirect the conversation back to the purpose of your visit. This can be addressed at another time.

14. All good, if you have managed to get to this point. HOWEVER, if the GP is unable to give you a medical opinion or is just not open to hear your claim. Simply ask them to complete the Pro-Forma. Consider asking for a referral to a medical specialist that regularly sees patients with electromagnetic sensitivities.

An Example of starting a conversation with your doctor is provided on the page below.

SUMMARY: Key points of First Appointment

- Be prepared before your appointment.
- Take 1-2 printed handouts and GP INFO-PACK COVERSHEET and GP PRO-FORMA
- State your claim of fear of harm and risk to your health.
- Ask for a medical opinion as to whether EMR are safe or not.
- Provide GP INFO-PACK to your doctor.
- Request a follow-up appointment in 2 weeks' time (if required).
- If, your doctor is not able to assist you with a medical opinion, just ask them to complete the GP ProForma. Remember you are not seeking a medical diagnosis.
- (Optional) If you wish, ask for a referral to a specialist medical practitioner that regularly sees patients with electromagnetic sensitivities.

Follow-up Appointment (if required)

1. So, at your second doctor's appointment, you would like to follow-up:

- a. Their medical opinion as to whether EMR emissions are safe or not and whether your fears are valid, is there a risk of harm?
- b. Obtain their medical opinion in writing in a form of a letter, that supports and validates your fear of harm to your health;
- c. OR, if GP is not able to provide you with a medical opinion, or it's outside the scope of their professional practice, or if GP is unwilling to give you an opinion; then, refer to (d) and (e) below.
- d. Ask the doctor to complete and sign the GP Pro-Forma (as required)
- e. OPTIONAL, Ask for a referral to a medical specialist that regularly sees patients with electromagnetic sensitivities.

SUMMARY: Key Points of Follow-up Appointment

Obtain a written medical opinion (OPTIMAL POSITION) OR completed GP Pro-Forma as written confirmation of your reported concerns and claim of fear of harm and risk of harm to your health (MINIMUM POSITION).

If you do not get a positive outcome. Then you could ask for a REFERRAL to a specialist medical practitioner that regularly sees patients with electromagnetic sensitivities, if required (Optional).

MINIMUM POSITION – GP Proforma is used as a reporting tool

Doctor's role is ONLY TO CONFIRM that the Patient has:

- (a) RATIONIZED FEAR OF EMR &
- (b) A REASONABLE FEAR OF RISK OF HARM TO THEIR HEALTH from EMR in their Environment &
- (c) CLAIMS TO BE EXPERIENCING certain symptomologies or health effects as a result of that EMR that may include Thermal (heating) and Non-Thermal (biological) effects of EMR.

OPTIMAL POSITION - Medical Opinion Letter

The letter from your doctor, should ideally include their medical expert opinion based on the science that you have provided them to validate your fear of harm and risk of harm to your health.

The letter, should ideally include:

A brief summary of your consultation with the doctor, stating your fear of harm, and risk of harm, describing the general source of the EMR emissions in your everyday environment, based on your conversation with your doctor, your health circumstances, health conditions, any presenting symptoms, and the doctor's expert medical opinion based on the scientific evidence that supports your claim, including recommendations to mitigate the emissions (the Precautionary approach).

Keep all correspondence.

FIRST VISIT TO DOCTOR:

An Example of starting a conversation with your doctor...

Hi Doctor, I am here today because I heard varying concerns about the harm that comes from the new 5G mobile network that is being installed throughout Adelaide. So I did my own research and found a large amount of peer reviewed scientific research that shows the harm that the EMF's (electromagnetic fields) are capable of. And the 5G network will be more than 1,000 times stronger than 4G.

I already have the 5G tower and or cells installed near me, or the 5G towers and or cells are soon to be installed near me. This gives me deep fears that these EMF emissions are going to cause me great risk to harm my health. I am asking you doctor if you could look at this scientific research and I will make a time for another appointment. I would then like a medical opinion from you as to whether EMR emissions from the 4G/ 5G towers and small cells near my home are safe or not, and whether my fears are valid.



GP PRO-FORMA

Report on Patient Claiming Concern/Harm from Electromagnetic Radiation (EMR)

Dr. _____
Clinic Name: _____
Address: _____

Phone: _____
Email: _____
Date: _____

To Whom It May Concern,

MEDICAL PRACTITIONER IDENTIFICATION

I am a Medical Practitioner with _____ years of practical experience.

I am a *G.P. / *Integrative Doctor / *Physician / *Medical Specialist. My fields of medical specialty include : (if specializing):

PATIENT IDENTIFICATION

The Patient, *Mr/Mrs/Ms/Ma., _____ aged _____ years, attended for appointment at my consulting rooms on _____ indicating health / medical concerns relating to their fear of Electromagnetic Radiation ("EMR") (also known as Non-Ionizing Radiation "NIR") in their *Home/Workplace/Educational Institution/Everyday Environment. ("Environment").

I understand my role in completing and signing this Form/ Report is NOT TO DIAGNOSE WHETHER MY PATIENT actually suffers from Electromagnetic Hypersensitivity (EHS) or other discernible medical condition recognized by the Mainstream _____ (sign initials)

My role is ONLY TO CONFIRM that my Patient has:

(a) RATIONIZED FEAR OF EMR _____ (sign initials) &

(b) A REASONABLE FEAR OF RISK OF HARM TO THEIR HEALTH from EMR in their Environment _____ (sign initials) &

(c) CLAIMS TO BE EXPERIENCING certain symptomologies or health effects as a result of that EMR that may include Thermal (heating) and Non-Thermal (biological) effects of EMR and NIR _____ (sign initials).

The Patient *has/*has not asked for a referral to a medical specialist.

As the Patient's Medical Practitioner, I *have/ *have not referred the Patient for Specialist Medical attention as a result of this consultation.

(If Specialist Referral is indicated). To what kind of Medical or other Specialist: _____

The Patient to sign:

I, _____ (Patient) hereby waive my rights to Doctor/Patient confidentiality with respect to this Pro-Forma and this consultation with my doctor.

The Medical Practitioner to sign:

I, Dr. _____, Hereby sign this Pro-Forma knowing the contents hereof to be True to the best of my knowledge, information and belief.

DATED THIS _____ day of _____ 20_____

This INFO-PACK has been prepared to assist GPs and other medical practitioners when seeing patients reporting their fear of harm and risk to their health from electromagnetic radiation (EMR) regarding the rollout of 5G technology in the public. This INFO-PACK provides links to the latest independent peer reviewed scientific research that shows the risk of harm of EMR and includes references to other relevant sources for background information.

GP Pro-Forma (Template) GP Report on Patient Claiming Concern / Harm from Electromagnetic Radiation (EMR) to complete for Patients.

Bioinitiative Report 2012 – (Updated 2017) The report (1,557 pages) was prepared by 29 authors from ten countries, ten holding medical degrees (MDs), 21 PhDs, and three MSc, MA or MPHs. Among the authors are three former presidents of the Bioelectromagnetics Society, and five full members of BEMS [Start at the Table of Contents] <https://bioinitiative.org/>

Bioinitiative (Colour Charts) The RF Colour Charts [of above Report] summarize many studies that report biological effects and adverse health effects relevant for cell towers, WI-FI, 'smart' wireless utility meters, wireless laptops, baby monitors, cell phones and cordless phones.

<https://bioinitiative.org/wp-content/uploads/pdfs/BioinitiativeReport-RF-Color-Charts.pdf>

Physicians for Safe Technology for Digital Technology and Public Health <https://mdsafetech.org/>
Advisory Board Members <https://mdsafetech.org/advisory-board/>

Scientific Literature <https://mdsafetech.org/5g-telecommunications-science/>

NTP Study; National Toxicology Program (NTP) – “Toxicology Study (On Cell Phone RadioFrequency NIR)”

- Video (14 minutes) on Youtube
[Summary - "The NTP Cell Phone Study Explained - with Dr. Ron Melnick"](#)
- Website & Article
[NIH National Toxicology Program Cell Phone Radiofrequency Radiation Study](#)

World Health Organisation / IARC Classifies Radiofrequency Electromagnetic Fields As Possibly Carcinogenic To Humans

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

Dr. Martin Pall, PhD is a Professor Emeritus of Biochemistry and Basic Medical Sciences, Washington State University, Pullman, Washington, U.S.A.

- Video (15 minutes) [Dr. Martin Pall To The NIH: "The 5G Rollout Is Absolutely Insane."](#)
- Or Open Letter (28 pp's) [Prof Martin Pall Response To ARPANSA Letter of 4-Mar-2019](#)

Dr Russell Cooper, Integrative Medicine GP presentation (YouTube: 1 Hr 25 mins)

[5G Action Event held in Perth, Western Australia, 28th April 2019.](#)

Building Biology Safety Guidelines for RF exposure - Institut für Baubiologie+Nachhaltigkeit IBN -
<https://buildingbiology.com/about-the-institute/> “Building Biology Evaluation Guidelines for Sleeping Areas”

<https://buildingbiology.com/site/wp-content/uploads/richtwerte-2015-englisch.pdf>

What is 5G Animation (Short Video 1.39 minutes) <https://www.youtube.com/watch?v=ESmIkstOFto>

NTD News (5 June 2019) Doctors call for delaying deployment of 5G due to Health Risks

<https://www.youtube.com/watch?v=-T2R2htAaqq>

Australian Communications and Media Authority (ACMA) <https://www.acma.gov.au/> ACMA is the regulator for the radiocommunication industry, that the spectrum licences for the roll-out of 5G. ACMA refers to the safety standards and guidelines published by ARPANSA when considering applications for licensing and implementation of new technology. 5G is currently being rolled out on existing and proposed cell towers by telcos based on the 3.5 GHz frequency band (3500 MHz) range. ACMA have recently drafted recommendation to the Minister Communications to relocate the next round of spectrum licences to the telcos in the 26 GHz frequency band. Refer to *Draft spectrum reallocation recommendations for the 26 GHz frequency band consultation paper*. Available for download at:

<https://www.acma.gov.au/theACMA/draft-spectrum-reallocation-recommendation-for-the-26-ghz-band>.

EMR Health Complaint Report

Details of Complainant:	
Surname:	First Name(s):
Address:	
Phone No:	Mobile No:
Email:	
Date of Birth:	Gender: <input type="checkbox"/> Male <input type="checkbox"/> Female
If necessary, would you be willing to be contacted by the National Health and Medical Research Council and/or ARPANSA? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Have you seen a medical or health practitioner about your health complaint? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Please detail the nature of your complaint. State the symptoms that you are suffering that you believe result from exposure to electromagnetic radiation. Attach additional pages if required.	
Please describe the source of the electromagnetic radiation to which you believe you were exposed. Attach additional pages if required.	
Acknowledgement:	
<small>You must sign the form before the information can be entered in the register to demonstrate that you understand the purpose for which the information has been collected and the conditions that surround its collection, retention and use. If you are not the person with the complaint, that person must also sign. You may be contacted by ARPANSA if there is a need to clarify any information in this report.</small>	
(Signature of person reporting)	(Signature of person with the complaint)
(Name of person reporting)	Date:

The proposed frequency range 24.25–27.5 GHz (the wider 26 GHz band) has been identified internationally and by the ACMA for delivery of millimetre wave (mmWave) 5th generation (5G) wireless broadband services. mmWaves span 30 to 300 GHz (i.e. a wavelength of 1 cm to 1 mm), however, in the current 5G context, mmWave bands in consideration span from around 24 GHz up to 86 GHz.

ARPANSA Disclaimer <https://www.arpansa.gov.au/about-us/disclaimer>

The Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) [Safety Standard](#) (3KHz to 300 GHz) sets limits for exposure to RF Electromagnetic Energy (EME). ARPANSA safety standards are based on studies undertaken 20 years ago.

ARPANSA refers the public to seek medical advice on symptoms relating to Electromagnetic hypersensitivity

<https://www.arpansa.gov.au/understanding-radiation/radiation-sources/more-radiation-sources/electromagnetic-hypersensitivity>

EME limits in the ARPANSA RF Standard

The table below shows the actual EME limits in the ARPANSA RF Standard used for the frequency bands representing different types of mobile network. At frequencies below 2000 megahertz (MHz) the limits vary across the band and the limit values shown in the table have been determined at the Assessment Frequency indicated. The table shows the three equivalent exposure limit figures in V/m, mW/m² and % ARPANSA Standard.

Radio Systems	Frequency Band	Assessment Frequency	ARPANSA Standard public exposure limits at the Assessment Frequency		
			Electric Field V/m	Power Density mW/m ²	% of ARPANSA exposure limits
LTE700	758 – 803 MHz	750 MHz	37.5 V/m	3750 mW/m ²	100%
WCDMA850	870 – 890 MHz	900 MHz	41.1 V/m	4500 mW/m ²	100%
GSM900, LTE900, WCDMA900	935 – 960 MHz	900 MHz	41.1 V/m	4500 mW/m ²	100%
GSM1800, LTE1800	1805 – 1880 MHz	1800 MHz	58.1 V/m	9000 mW/m ²	100%
LTE2100, WCDMA2100	2110 – 2170 MHz	2100 MHz	61.4 V/m	10000 mW/m ²	100%
LTE2300	2302 – 2400 MHz	2300 MHz	61.4 V/m	10000 mW/m ²	100%
LTE2600	2620 – 2690 MHz	2600 MHz	61.4 V/m	10000 mW/m ²	100%
LTE3500	3425 – 3575 MHz	3500 MHz	61.4 V/m	10000 mW/m ²	100%

Power density is often expressed in units other than mW/m², other common units are watts per square metre (W/m²) and microwatts per square centimetre (µW/cm²). Where conversion is required: 1 watt per square metre (W/m²) = 100 microwatts per square centimetre (µW/cm²) = 1000 milliwatts per square metre (mW/m²).

Table Reference: [Electromagnetic Energy \(EME\) Report Guide](#)

ARPANSA Health Complaints Register:

<https://www.arpansa.gov.au/research/surveys/electromagnetic-radiation-health-complaints-register>

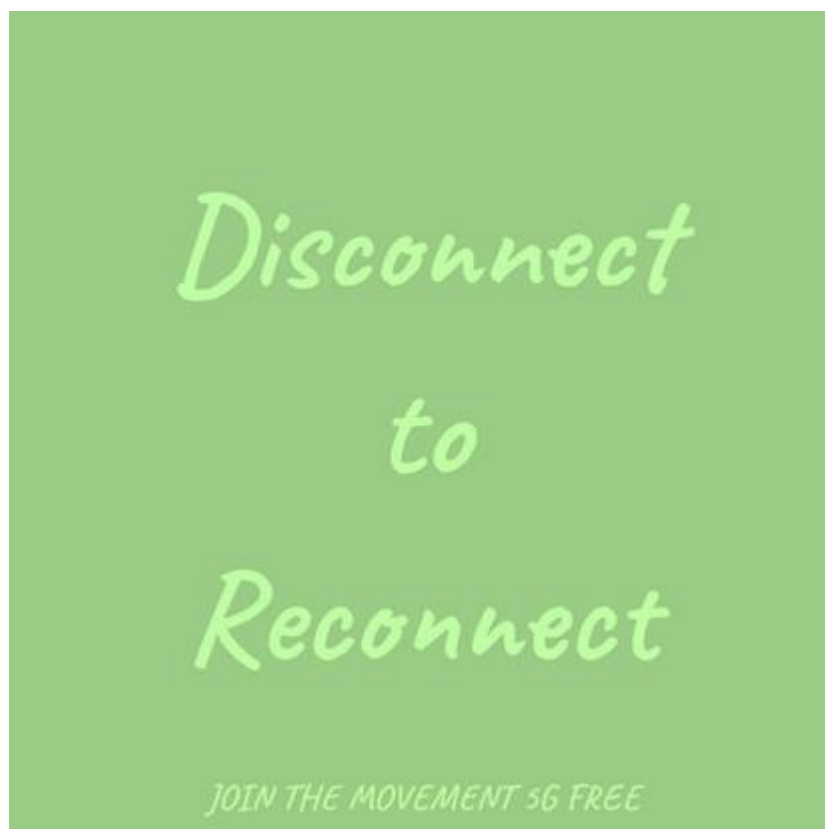
ARPANSA maintains an Australian Electromagnetic Radiation (EMR) Health Complaints Register. The Health Complaints Register collects reports of health concerns related to possible EMR field exposures in the range of 0-300 GHz. However, ARPANSA cannot investigate or attempt to resolve individual complaints.

[EMR Health Complaint Report](#) is available for download. Members of the public who believe they have suffered ill-effects as a result of exposure to EMR can lodge a written complaint to the register.

HOW TO REDUCE EXPOSURE TO EMF

- Use a hard-wired cable connection instead of wireless devices for computers (router), printers, intercoms, baby monitors, solar panels, speakers, game consoles etc..... (this is the most important and safest thing to do).
- Avoid baby monitors, if you must use a baby monitor make sure that it is connected to the building wiring and located a distance away from the cot to reduce exposure to the AC magnetic field.
- Children should avoid using mobile phones except in emergency circumstances. Texting is a safer option.
- Cordless telephones should be replaced with a corded phone. Covert your mobile phone to a landline or a Skype landline number when possible. Keep phone and devices away from your body and head (at least 50cm).
- Use speaker phone, text instead of call or use an air tube ear piece.
- Turn on airplane mode as much as possible.
- You may choose a mobile phone with a low Specific Absorption Rate (SAR). It is still important to keep calls short, use loud speaker etc.
- Do not purchase a tablet unless it can be used non-wirelessly. Connect the tablet (or laptop) to Ethernet with an adapter and cord.
- Always place a wireless device on a table, not the body, even when wireless antennas are turned off. Built in antennas emit frequencies that will expose the vital organs to microwave emissions.
- Put an iPad into flight mode when the app has been downloaded.
- Do not buy appliances that don't allow you to turn Wi-Fi off.
- Do not use devices when there is a poor connection as it will increase your exposure to radiation.
- Avoid using devices in cars, elevators, trains and buses. Fit an external antenna to your car and avoid Bluetooth.
- Do not enable Bluetooth or Wi-Fi Calling on your smart phone and turn off mobile data when not in use.
- Reduce the amount of unnecessary time that you spend on devices - YES they are ADDICTIVE for a reason - to stimulate usage and drive economic benefits.
- Increase your distance from the source. Keep a distance from smart appliances. Keep devices away from your bed or where you spend time.
- Do not buy 5G enabled devices as they are fitted with multiple antennas which can significantly increase your exposure.
- If you live in a unit - get friendly with your neighbours and ask them to turn Wi-Fi off when not in use - especially at night.
- Avoid physical shielding unless recommended by a professional who does not have ties with the shielding industry and will do 'before' and 'after' testing with professional equipment. Shielding can potentially INCREASE your exposure. You can consider metal fly screens to shield windows, or shielding paint, fabrics and foils for the walls and windows. Shielding is a last resort when there are no other options.
- Keep at least 300 metres away from a mobile phone base station.
- Avoid installing a Femto Cell such as the Telstra Smart Antenna.

- If you are unable to remove wireless technology:
 - Do not put routers in occupied rooms (bedroom, living spaces...)
 - Turn off ALL wireless devices when not in use (especially at night as they can continue to emit radiowaves continuously.
 - Power down the router AT THE WALL SOCKET
- Watch the sunset and sunrise as much as possible. The sunrise and sunset have a distinct red/orange tinge of colour and these combinations provide the perfect balance to manage our circadian rhythm.
- Get earthed. Swim in the ocean or walk barefoot on damp grass!
- Keep electronic devices out of children's bedrooms and turn off all screens 1 hour (or at least 30minutes) before bedtime.
- Never allow children to sleep with a wireless device under their pillow, on or next to their bed.
- Please note: It is also recommended to reduce AC magnetic fields, AC electric fields and dirty electricity.
- If you are concerned about Wi-Fi at your child's school - check out the excellent resources by building biologist Suzanne Ryan. It is a great tool to help you communicate to your school about your concerns and provides you with information needed to request that your school Principal takes a precautionary approach to minimise children's exposure to Radio Frequency Electromagnetic Fields. Your concerns can be registered, which will honestly be of great use in the future! <https://hocthewifi.com/>
- Donate to Environment and Communities Safe From Radiation (ECSFR) who are working to GET Wi-Fi out of schools (plus so much more) to protect our children and the children of future generations. <https://www.gofundme.com/f/ecsf>



PETITIONS

International Appeal to Stop 5G on Earth and in Space

A petition signed by over 200 international scientists setting out information on what 5G is, discusses the satellites to be launched and links to many peer reviewed articles on the negative impacts of EMFs.

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

INTRODUCTION TO 5G

Australian radiofrequency spectrum plan (2017)

<https://www.acma.gov.au/theacma/australian-radiofrequency-spectrum-plan-spectrum-planning-acma>

https://www.acma.gov.au/-/media/Spectrum-Engineering/Image/Spectrum_Illustrated-png.png?la=en

Health Implications of Long-term Exposure to Electrosmog- Karl Hecht

http://kompetenzinitiative.net/KIT/wp-content/uploads/2016/07/KI_Brochure-6_K_Hecht_web.pdf

What is 5G?

https://www.youtube.com/watch?v=MC_Sfkh5-zQ

5G, birds, bees and humanity. Arthur Firstenberg.

https://www.youtube.com/watch?v=MpdJ_t5XMvw

Building Biology – 5G

<https://www.buildingbiology.com.au/hazards/5g-the-internet-of-things-iot.html>

5G is the risk worth the reward?

<https://www.fxmedicine.com.au/content/5g-technology-risk-worth-reward-nicole-bijlsma>

Australasian Society of Building Biologists Position Statement (see references)

<https://asbb.org.au/5g-whitepaper/>

Wireless Industry Confesses “No Studies Show 5G is Safe”. US Senator Blumenthal Raises Concerns on 5G Wireless Technology Health Risks at Senate Hearing:

<https://www.youtube.com/watch?v=ekNCOJ3xx1w>

Professor Emeritus of Biochemistry and Basic Medical Sciences, Martin Pall:

<https://www.youtube.com/watch?v=lulKq3FMGGS>

5G Gigantic health hazard – Barrie Trower & Sir Julian Rose. Video. 14 December 2018:

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

5G explainer video:

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

The 5G unknown risks video:

https://www.youtube.com/watch?time_continue=2&v=JKaolXw0qJI

Generation Zapped official trailer:

<https://www.youtube.com/watch?v=h7R4gKs8Vil&vl=en>

European Parliament: 5G Deployment: State of Play in Europe, USA and Asia. April 2019:

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

5G: The Dominoes Are Starting to Fall

<https://www.globalresearch.ca/5g-dominoes-starting-fall/5674715>

5G Technology: The Greatest Conspiracy of All Time?

https://www.youtube.com/watch?v=ChS3J893rpl&feature=youtu.be&fbclid=IwAR1JG-d0VH7v7_6TWQ7mlecEEjLID7eNXOH11DGOYT3tA-JP57FnxwPtDA8

Prof. Olle Johannsson on Wi-Fi “Irreversible sterility within five generations”:

<https://www.youtube.com/watch?v=BH3gJctqKk4>

HEALTH OVERVIEW

WHO Classification OF EMF As a Class 2(B) Possible Carcinogen

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

Lancet article dated December 2018 ‘Planetary electromagnetic pollution: is it time to assess its impact?’

<https://www.thelancet.com/journals/lanplh/article/PIIS2542-5196%2818%2930221-3/fulltext?fbclid=IwAR18aq6BxWprna1gxLKcMFqMoPlZGA2wc-YtfyWi24g7inIY-xvsYSBZ4sM#.XPP8FgoaEJc.facebook>

Community concerns over 5G: Needless anxiety or wise precaution? Don Maisch July 2019

[file:///C:/Users/HP/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbwe/TempState/Downloads/26April_5G_concerns_paper%20\(1\).pdf](file:///C:/Users/HP/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbwe/TempState/Downloads/26April_5G_concerns_paper%20(1).pdf)

5G What you need to know

https://ehtrust.org/wp-content/uploads/5G_What-You-Need-to-Know.pdf

RESEARCH ON IMPACT OF EMFs ON HEALTH

National Toxicology Programme Study - November 2018

NTP Technical Report On The Toxicology & Carcinogenesis Studies In Hsd:Sprague Dawley Rats Exposed To Whole-Body Radio Frequency Radiation At A Frequency (900 MHz) And Modulations (GSM And CDMA) Used Cell Phones

<https://ntp.niehs.nih.gov/results/areas/cellphones/index.html#studies>

https://ntp.niehs.nih.gov/ntp/htdocs/lt_rpts/tr595_508.pdf

Information and explanations about the National Toxicology Programme Study

<https://ehtrust.org/cell-phone-radiofrequency-radiation-study/>

Cesare Maltoni Cancer Research Center, Ramazzini Institute, 2018

Report of final results regarding brain and heart tumours in Sprague-Dawley rats exposed from prenatal life until natural death to mobile phone radiofrequency field representative of 1.8 GHz GSM base station environmental emission.

The Ramazzini Institute findings on far field exposure to RFR are consistent with and reinforce the results of the NTP study on near field exposure, as both reported an increase in the incidence of tumours of the brain and heart in RFR-exposed Sprague-Dawley rats.

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

2.45 GHz Microwave Irradiation Adversely Affects Reproductive Function in Male Mouse, Mus musculus by Inducing Oxidative and Nitrosative Stress

https://www.researchgate.net/publication/260063972_245_GHz_Microwave_Irradiation_Adversely_Affects_Reproductive_Function_in_Male_Mouse_Mus_musculus_by_Inducing_Oxidative_and_Nitrosative_Stress

Joint actions of environmental nonionizing electromagnetic fields and chemical pollution in cancer promotion

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1567752/>

Oxidative stress in biological systems

https://www.researchgate.net/publication/279863242_Oxidative_mechanisms_of_biological_activity_of_low-intensity_radiofrequency_radiation

Can non-ionising radiation cause cancer?

<https://www.sciencedirect.com/science/article/pii/S0269749116309526>

Non-thermal activation of the hsp27/p38MAPK stress pathway by mobile phone radiation in human endothelial cells: molecular mechanism for cancer- and blood-brain barrier-related effects.

<https://www.ncbi.nlm.nih.gov/pubmed/12076339>

Section 2: BioInitiative Report (2012). A rationale for biologically-based exposure standards for low intensity electromagnetic radiation.

<http://www.bioinitiative.org/>

Reported biological effects from radiofrequency radiation at low-intensity exposure chart

<https://bioinitiative.org/rf-color-charts/>

Reliable disease biomarkers for EHS and MCS

<https://www.ncbi.nlm.nih.gov/pubmed/26613326>

<https://www.emfanalysis.com/wp-content/uploads/2015/12/Belpomme-EHS-Biomarker-Study-2015.pdf>

Radiofrequency exposure in young and old: different sensitivities in light of age-relevant natural differences

<https://www.ncbi.nlm.nih.gov/pubmed/26613328>

Kheifets L, Repacholi M, Saunders R, van Deventer E. The sensitivity of children to electromagnetic fields

<https://pediatrics.aappublications.org/content/116/2/e303>

EUROPAEM EMF Guideline 2015 for the prevention, diagnosis and treatment of EMF-related health problems and illnesses

<https://www.ncbi.nlm.nih.gov/pubmed/26613329>

De Luca et al. Metabolic and genetic screening of EHS subjects

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4000647/>

Electromagnetic hypersensitivity: a systematic review of provocation studies.

<https://www.ncbi.nlm.nih.gov/pubmed/15784787>

Electromagnetic fields act *via* activation of voltage-gated calcium channels to produce beneficial or adverse effects

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3780531/>

Effects of GSM modulated radio-frequency electromagnetic radiation on permeability of blood–brain barrier in male & female rats

<https://www.sciencedirect.com/science/article/pii/S0891061815001064>

The Seletun Scientific Statement Lower EMF Standards for World Health Are Urgently Needed

<http://www.iemfa.org/seletun-statement/>

Mobile Phone Masts

<https://www.powerwatch.org.uk/rf/masts.asp>

WiFi and Health

<https://www.powerwatch.org.uk/rf/wifi.asp>

EFFECTS OF CELL PHONE USE ON HEALTH & WELLBEING

Effects of cell phone use on semen parameters: Results from the MARHCS cohort study in Chongqing, China.

<https://www.ncbi.nlm.nih.gov/pubmed/26949865/>

Microwaves from Mobile Phones Inhibit 53BP1 Focus Formation in Human Stem Cells More Strongly Than in Differentiated Cells: Possible Mechanistic Link to Cancer Risk

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2854769/>

Effects of cellular phone emissions on sperm motility in rats

<https://www.sciencedirect.com/science/article/pii/S0015028207000490>

Effect of cell phone usage on semen analysis in men attending infertility clinic: an observational study

<https://www.sciencedirect.com/science/article/pii/S0015028207003329>

Pooled analysis of case-control studies on acoustic neuroma diagnosed 1997–2003 and 2007–2009 and use of mobile and cordless phones

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3829779/>

Cell phones and brain tumors: a review including the long-term epidemiologic data

<https://www.ncbi.nlm.nih.gov/pubmed/19328536/>

Pooled analysis of case-control studies on acoustic neuroma diagnosed 1997–2003 and 2007–2009 and use of mobile and cordless phones

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3829779/>

Cordless Phones

<https://www.powerwatch.org.uk/rf/duct.asp>

Radio and TV, Tetra, Radar, Microwave Ovens

<https://www.powerwatch.org.uk/rf/other.asp>

Wireless Technology – A Danger We Can't Live Without

<https://www.buildingbiology.com.au/hazards/wireless-technology.html/attachment/attachment-wireless-technology-a-danger-we-cant-live-without>

Mobile Phone Base Station Tower Settings Adjacent to School Buildings: Impact on Students' Cognitive Health

https://journals.sagepub.com/doi/10.1177/1557988318816914?fbclid=IwAR0E5G2IjE_ZLI84UllJzDABVP59ctEU9GhiFNR8qc693n7h9FluzfNd-Co&

Compilation of studies on EMFs and Cancer

https://www.wesaynoto5ginaustralia.com/cancer-research?fbclid=IwAR0E_pqLWrX7qgBsiNjDciOLSyvIantBRVyWx1oEMgg4RX-jqwqPUQqdQ0

Compilation of Research Studies on Cell Tower Radiation and Health

<https://ehtrust.org/science/cell-towers-and-cell-antennae/compilation-of-research-studies-on-cell-tower-radiation-and-health/>

Peer-Reviewed Research Studies on Wi-Fi

<https://ehtrust.org/science/peer-reviewed-research-studies-on-wi-fi/>

Peer-Reviewed Scientific Studies on EMF-related Subjects

<https://www.powerwatch.org.uk/science/studies.asp>

Radiation Protection in Conflict with Science - A Documentation - Franz Adlkofer and Karl Richter

http://competence-initiative.net/KIT/wp-content/uploads/2014/09/broschuerenreihe_heft-5_eng_screen.pdf

CHILDREN & WIRELESS

Children and wireless

<https://ehtrust.org/take-action/educate-yourself/children-and-wireless-fags/>

iPads and Tablets: Health Risks, Safety Risks, and Practical Solutions

<https://ehtrust.org/take-action/educate-yourself/ipads-tablets-health-risks-safety-risks-practical-solutions/>

Measurements of radiofrequency radiation with a body-borne exposimeter in Swedish Schools with WiFi

<https://www.frontiersin.org/articles/10.3389/fpubh.2017.00279/full>

How Susceptible Are Genes to Mobile Phone Radiation?

http://competence-initiative.net/KIT/wp-content/uploads/2014/09/ki_howsusceptiblearegenes_screen.pdf

Wi-Fi in schools: the facts (2012)

<https://www.youtube.com/watch?v=kmcAXZ-o1K4>

WiFi Radiation in Schools Maryland Report, 2016

https://phpa.health.maryland.gov/OEHFP/EH/Shared%20Documents/CEHPAC/MD_CEHPAC_SchoolWiFi_022017_final.pdf

Hoc the Wifi (a tool for parents who are concerned about Wifi in schools)

– created by building biologist Suzanne Ryan

<https://hocthewifi.com/>

Working for Safe Technologies for Nurseries, Schools and Colleges

www.wifiinschools.org.uk/index.html

Supporting letters from scientists and medical experts

http://www.wifi-in-schools-australia.org/p/blog-page_3.html

Parents against Wifi in schools

<https://ecsfr.com.au/parents-against-wifi-in-schools/>

DATABASES

Bioinitiative Report 2019

A Rationale for Biologically-based Public Exposure Standards for Electromagnetic Fields (ELF and RF)

<https://bioinitiative.org/table-of-contents/>

Oceania Radiofrequency Scientific Advisory Association (ORSAA) research

<https://www.orsaa.org/research-papers.html>

Prove It – Database of more than 5,000 studies

<http://www.justproveit.net/content/studies>

EMF Portal Research Literature

<https://www.emf-portal.org/en>

EMFACTS

<https://www.emfacts.com/>

Physician for Safe Technology

<https://midsafetech.org/science/>

Environmental Health Trust

<http://www.ehstrust.org/>

SCIENTISTS & DOCTORS DISCUSSING 5G ON VIDEO

Prof. Martin Pall (2014) How electromagnetic fields cause biological harm

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

Prof Martin L Pall PhD, Professor Emeritus of Biochemistry and Basic Medical Sciences, Washington State University addressing the NIH – **The 5G Roll Out is Absolutely Insane**

https://www.wesaynoto5ginaustralia.com/?fbclid=IwAR0E_pgLWrx7qgBsiNjDciOLSyvIantBRVyx1oEMgg4RX-iqwCqPUQqdQ0

Resonance Beings of Frequency

A Documentary film setting out clearly the issues we face with increasing EMFs in our environment from doctors and scientists studying this area and the reasons why the science is being ignored.

https://www.youtube.com/watch?v=YFR5EtO_zdM&fbclid=IwAR16-EUTaLWRnh-ZA1Ao2ioPpgpEpl-9T_UKdGUS3b9pbljGDal5HmhT-nw

The Truth About Mobile Phones and Wireless Radiation – Dr Devra Davis

<https://www.youtube.com/watch?v=BwyDCHf5iCY&feature=youtu.be>

Dr Charlie Teo and Dr Devra Davis discuss EMF/Cell Phone radiation at a lecture at UNSW Law School November 2015

<https://www.youtube.com/watch?v=yEffkF1OHsY&feature=youtu.be>

Ontario Doctor's Warn of Rising Health Care Costs After 5G Roll Out

C4ST's (Canadians for Safe Technology) issue a media release.

On the panel: Frank Clegg (CEO of C4ST and previously 14 Years as President of Microsoft Canada),

Dr Riina Bray MD, Dr Magda Havas PhD (Professor Emeritus at Trent University)

Dr Anthony Miller (Professor Emeritus at University of Toronto), Dr Meg Sears

<https://www.youtube.com/watch?v=S16QI6-w9I8&feature=youtu.be>

Dr Dart (2014) The health effects of microwave radio exposures

<https://www.youtube.com/watch?v=dpQegD1D34k>

Dr Martin Pall

<https://scientists4wiredtech.com/2017/08/dr-martin-pall-opposes-sb649/>

ENVIRONMENTAL IMPACTS OF 5G

Birds, Bees and Mankind – Destroying nature by electrosmog Ulrich Warnke

http://competence-initiative.net/KIT/wp-content/uploads/2014/09/ki_beesbirdsandmankind_screen.pdf

Bees and insects

<https://www.nature.com/articles/s41598-018-22271-3>

<https://ehtrust.org/published-research-adverse-effect-wireless-technology-electromagnetic-radiation-bees/>

Bees, butterflies and wildlife

<https://ehtrust.org/science/bees-butterflies-wildlife-research-electromagnetic-fields-environment/>

Trees and Plants

<https://ehtrust.org/electromagnetic-fields-impact-tree-plant-growth/>

Data Centres of the World Will Consume 1/5 of Earth's Power by 2025 - 12 Dec 2017

Links to research and highlights how the communications industry could be using 20% of the world's electricity by 2025, hampering global attempts to meet climate change targets due to digital data storage server farms that will be needed for the billions of smartphones and internet-connected devices grows exponentially for the Internet of Things.

<https://data-economy.com/data-centres-world-will-consume-1-5-earths-power-2025/>

'Tsunami of data' could consume one fifth of global electricity by 2025'

Article from Climate Change News.com dated 11 Dec 2017

<https://www.climatechangenews.com/2017/12/11/tsunami-data-consume-one-fifth-global-electricity-2025/>

Environmental Impacts from Rockets used to launch satellites

The first two 5G test satellites were launched by SpaceX in February of 2018. 60 more were launched earlier this year with the full set of 20,000 satellites being launched into orbit during the next two years.

To put this into perspective, as of September 2017 there were 1,738 operating satellites in orbit around the Earth. This means the number of satellites will be 11 times greater than the current number.

If the number of annual rocket launches increases by at least 10x, computer models suggest that the combination of ozone depletion and release of black soot could produce a three per cent warming effect over the Antarctic and reduce the ozone in the world's atmosphere by 4%.

Rocket fuel is destructive to the Earth's ozone layer, which protects us from the effects of radiation from the sun. Rockets using solid fuel produce massive ozone depletion while rockets using liquid kerosene as fuel destroy less ozone but release massive amounts of black carbon soot into the air at high altitudes.

Microwaving Our Planet: The Environmental Impact of the Wireless Revolution

Arthur Firstenberg 1997

Rocket exhaust destroys ozone. It has been calculated that 9 Space Shuttles and 6 Titan IV launches per year would only put enough chlorine into the stratosphere to destroy 0.1% of its ozone (Prather et al. 1990). But few people seem to be considering what hundreds or thousands of launchings will do and are doing. Aleksandr Dunayev of the Russian space agency was quoted in 1989 as saying, "About 300 launches of the shuttle each year would be a catastrophe and the ozone would be completely destroyed" (Broad 1991).

Rocket exhaust also produces acid rain and massive water pollution near launch sites, and contributes further to global warming by adding water vapour to the stratosphere.

www.avaate.org/IMG/doc/Microwaving_Our_Planet_firstenberg.doc

'SpaceX is in communication with all but three of 60 Starlink satellites one month after launch'

Verge article dated 28 June 2019 confirms the first sixty satellites were launched last month and three are already out of communication meaning they will fall to Earth. SpaceX will continue to launch batches of sixty satellites at a time, with the goal of getting between 1,000 to 2,000 spacecraft up each year. It should take about 24 launches to reach global Internet coverage. With each satellite only lasting 5 years they will need to constantly be launching them with the corresponding impact on the ozone layer and pollution contributing to climate change for the foreseeable future.

<https://www.theverge.com/2019/6/28/19154142/spacex-starlink-60-satellites-communication-internet-constellation>

<https://www.cellphonetaskforce.org/wifi-in-the-sky/>

<https://www.cellphonetaskforce.org/wifi-in-the-sky/>

<https://phys.org/news/2009-03-rocket-ozone-depletion.html>

<https://www.sciencedaily.com/releases/2009/03/090331153014.htm>

<https://www.theverge.com/2018/5/31/17287062/rocket-emissions-black-carbon-alumina-particles-ozone-layer-stratosphere>

<https://www.sciencfocus.com/space/what-is-the-environmental-impact-of-the-spacex-falcon-heavy-launch/>

<https://www.space.com/38884-rocket-exhaust-space-junk-pollution.html>

The International Astronomical Union – IAU

IAU issued a statement arguing that an uncrowded night sky is “not only essential to advancing our understanding of the Universe of which we are a part, but also as a resource for all humanity and for the protection of nocturnal wildlife ... We do not yet understand the impact of thousands of these visible satellites scattered across the night sky and despite their good intentions, these satellite constellations may threaten both.”

<https://www.iau.org/news/announcements/detail/ann19035/>

AI AND THE INTERNET OF THINGS (IOT)

5G and the IOT: Scientific Overview of Human Health Risks

<https://ehtrust.org/key-issues/cell-phones-wireless/5g-networks-iot-scientific-overview-human-health-risks/>

<https://ehtrust.org/scientific-research-on-5g-and-health/>

About 5G and the Internet of Things

<https://ehtrust.org/key-issues/cell-phones-wireless/5g-internet-everything/>

Exposure Standards

<https://www.youtube.com/watch?v=64SIGJnAGeU>

<https://mdsafetech.files.wordpress.com/2018/09/conversion-chart-microwave-electromagnetic-radiation-pdf.pdf>

Maisch (2006) Conflict of interest and bias in health advisory committees

[file:///C:/Users/HP/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbwe/TempState/Downloads/who_conflict%20\(1\).pdf](file:///C:/Users/HP/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbwe/TempState/Downloads/who_conflict%20(1).pdf)

Maisch (2010) History of exposure standards in Australia. Political and corporate involvement with cell phone research in Australia.

[file:///C:/Users/HP/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbwe/TempState/Downloads/Chap_16_updated_to_Aug_2018%20\(1\).pdf](file:///C:/Users/HP/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbwe/TempState/Downloads/Chap_16_updated_to_Aug_2018%20(1).pdf)

The Procrustean Approach – Setting Exposure Standards for Telecommunications Frequency Electromagnetic Radiation
<https://www.emfacts.com/the-procrustean-approach/>

Section 3 & 4 of Bioinitiative Report. A rationale for biologically-based exposure standards for low intensity electromagnetic radiation, 2012
<https://bioinitiative.org/>

Source of Funding and Results of Studies of Health Effects of Mobile Phone Use: Systematic Review of Experimental Studies'
This 2007 study concludes that 'The interpretation of results from studies of health effects of radiofrequency radiation should take sponsorship into account'
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1797826/>

Prof Martin L Pall PhD, Professor Emeritus of Biochemistry and Basic Medical Sciences, Washington State University **28-page forensic analysis of ARPANSA's approach**

The Minister for Health (The Hon Greg Hunt MP) and the Minister for Environment (The Hon Melissa Price MP) received a letter from Stop 5G Perth and Australia wide seeking a response from ARPANSA. The letter sought information about the role of ARPANSA and the health impacts of millimetre wave 5G technology. ARPANSA replied, downplaying any possible cause for alarm. On behalf of Stop 5G, Professor Martin Pall, PhD, Professor Emeritus of Biochemistry and Basic Medical Sciences, Washington State University, responded to ARPANSA's letter.
<https://stopsmartmetersau.files.wordpress.com/2019/03/prof-pall-response-to-arpansa-letter-4-march-2019.pdf>

