Inquiry into 5G

Contact Details:

20/10/2019

20/10/2019 From D King

Standing Committee on Communications & the Arts
House of Representatives
PO Box 6021
Parliament House
Canberra ACT 2600

re Inquiry into 5G in Australia
Inquire into the deployment, adoption and application of 5G.

Terms of reference:
1/ Capability, capacity and deployment of 5G.
2/ Understand the application of 5G including use cases for enterprise and government.

1/ Re deployment of 5G

I request a moratorium before the deployment of 5G.

I expect the precautionary approach to be always observed in Australia, whether it relates to enterprise, or to environmental or OHS laws. Is there any reference to this idea in the ARPANSA standard

2/ Understand the application of 5G including use cases for enterprise and government.

Cost to agriculture:
We have fewer pollinating insects recently, in both ants and bees, and the levels of wireless radiation are blamed, at frequencies much lower than 5G.
Ant numbers have dropped over 95% since about 2002 here, without poisoning them. Researchers found that amidst Wi-Fi, the ants foraging was disturbed, so some died. (Cammaerts & Johansson 2013).
Dr Warnke in his book of 2009 quoted Ruzicka when in 2003 bee colonies collapsed amidst wireless radiation.

I do not want to be looking at any antenna or small cell facility for 5G in this street, as I chose this "clean green environment" with extremely low wireless radiation. Property values could be lowered by 5G antennas here.

I have no use for 5G.
I do not want 5G coming onto my property and I can also turn off the supply of water and electricity at the boundary fence.

I value the natural environment here, among birds, bees and trees.

Infrastructure here already brings power etc. and landline phone and internet connection, and from the phone tower there is radiofrequency radiation of under 0.1 microwatts per square metre for mobile phone reception, which is 0.0001 milliWatts per square metre (0.0001 mW/m^2).

In the future I surely have a right to enjoy the outdoor area of the property as it is now, which has a natural level of wireless radiation below 0.0001mW/m^2 .

Incidentally, even the mean radiation level of 22 uW/m^2 (0.022mW/m^2) measured inside the WHO building in Geneva seems reasonable (when scientists went to a meeting there), and surprisingly the meter readings for two Wi-Fi bands were zero. While the ICNIRP limit is 10,000,000 uW/m^2. Public areas in Stockholm had measured mean values of 404 to over 24,000 uW/m^2. These figures relate to frequencies up to 5.85 Gigahertz only and not the far higher levels proposed for 5G. (Like 10+GHz). (Hardell, Int J Onc 2017).

Lower property values are likely here, as the 5G radiation may result in unhealthy trees (Haggerty 2010) and fewer birds (Di Carlo et al, 2002). This area is prized for the native vegetation and wildlife, including rare birds. At night the cute ringtail possums go fossicking for food, residents spend some time stargazing, and we do not want a street light here, or the 5G radiation. Residents here often grow some of their own food, and so they rely on the pollination of insects which researchers found to be affected by wireless radiation.

Recommendations:

A 5G **moratorium** before the deployment of 5G, especially over 10GHz.

Maintain a **precautionary approach,** especially as this is a new technology.

Give high priority to invited reports about the suitability of 5G from independent scientists who will not gain financially by 5G associated technology.

Maintain the current wired phone/internet service.

Invest in and expand wired internet/phone service, possibly with fibre optics, and ensure public buildings and institutions are connected to the wired service.

Protect the privacy of residents in their homes.

Record emission levels for each mobile phone tower/ small cell facility, to bemonitored, recorded on a website, and available to the public.

Road safety.
Encourage a high level of alertness and skills in drivers, so that they don't need to rely on technology to stay in vehicle lanes, and to check fuel levels and not run out of fuel.

Signed [redacted]

References

ARPANSA: Radiation Protection Series Publication 3

Cammaerts and Johansson, "Ants can be used as bio-indicators to reveal biological effects of electromagnetic waves from some wireless apparatus", Electromagnetic Biology and Medicine, 8.30.13.

Di Carlo et al, "Chronic electromagnetic field exposure decreases HSP70 levels and lowers cytoprotection", Journal of Cellular Biochemistry, v.84 (2002): 447-454.

Haggerty, "Adverse influence of radio frequency background on trembling aspen seedlings: Preliminary observations", International Journal of Forestry Research, 2010.

Hardell, Int J Onc, 2017.

Warnke, "Bees, Birds and Mankind: Effects of Wireless Communication Technologies (Kentum, 2009) a book.