

Mr. Chua Choon Hiang

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Deputy CE (Policy, Regulation & Competition Development)  
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Dear Aileen Chia (Ms),

Subject : **Second Consultation on 5G Mobile Services and Networks**

With reference to the above subject, I would like to state my position to voice serious health concern for this untested 5G technology to be deployed in Singapore. I have seen many time that the relevant authority always cited ICNIRP / WHO guideline (10,000,000 uW/m<sup>2</sup> ) as basis for safe public exposure. Do you know that these guideline is at least 3 decades old and they are based on heating or thermal effects to human cell. There are already thousands of peered reviewed scientific studies citing the biological effects of microwave radiation on human cells that occurs well below thermal level. Meaning the cells are biological affect even before heating starts.

Countries like India and China uses guideline that are 10 to 100 times lower than what Singapore has been adopting. Austria Salzburg is at 1uW/m<sup>2</sup>. Many countries have already establish a much lower guideline and I do not understand why my country choose to use the outdated and non-protective level for public exposure. Brussels has stop 5G due to health concern, Switzerland has also started to delay 5G rollouts and will create a radiation monitoring system. In New Hampshire, lawmakers are considering establishing a commission to study the health impacts of 5G networks. Mill Valley, Calif., near San Francisco, last year banned new 5G wireless cells.

5G would mean more cell towers to be installed near to people home /office/ schools / hospitals so on. This will significantly increase the already high level of microwave radiation from current 4G LTE & 3G system network. I seriously hope that you will really consider the very serious long term health effects for existing and future generation.

The International Agency for Research on Cancer (IARC), the cancer agency of the World Health Organization (WHO), in 2011 concluded that EMFs of frequencies 30 KHz – 300 GHz are possibly carcinogenic to humans (Group 2B). However, new studies like the NTP study mentioned above and several epidemiological investigations including the latest studies on mobile phone use and brain cancer risks confirm that RF-EMF radiation is carcinogenic to humans. See studies from Ramazzini Institute Study from Italy shows the same result ( effect of mobile phone

tower). Because of the finding from NTP and Ramazzini study, international scientist wanted IARC to reclassify from current class 2B back in early 2018.

There has also hundreds of international scientist appeal to UN to stop 5G, see links below. Human do not learn very well from history. Remember asbestos, tobacco health warning which surfaces many decades before what we know today as solid evidence of their fatality. The global health organisation did not act fast then, citing then that there were lack of conclusive evidence, see what has happened over the decades that many have lost their lives as a result of this inaction. The industry has been very good to create doubts to those scientific studies or data and the global health organisation stalled and start looking for more evidence. Today you are seeing the same thing with mobile phone industry.

Finally I am not asking for a stop to all new technology but all the speed can be achieve with fibre connection and not to go wireless everywhere. Cost and ease of the deployment should not supersede health.

There are still many credible links that I wish to send to you but I will stop here and I hope you do not disregards all those links easily see those credential from those scientist. Please invite those experts and hear them out and let them present the evidence to you. It is better to hear different view not only hearing existing team in Singapore.

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

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

<https://ehtrust.org/international-actions-to-halt-and-delay-5g/>

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

<https://ehtrust.org/ramazzini-institute-study-animal-study-on-base-station-cell-tower-radiofrequency-radiation-question-answer/>

Thank you

Yours Faithfully,



Chua Choon Hiang