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1. Vorstand: Dr. Claus Scheingraber



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Mr. Elon Musk

Corporate Secretary

Tesla, Inc.

3500 Deer Creek Road

Palo Alto, CA 94304

United States

June 18, 2018

Open Letter

Planet Earth: Worldwide 5G Radiation from Orbit?

Dear Director Musk,

Even in Europe the news has reached us that you want to have thousands of satellites placed into space so that 5G-mobile communications can be present everywhere on earth (<https://www.golem.de/news/spacex-elon-musk-will-11-943-satelliten-fuer-das-internet-1703-126545.html>); <https://www.engadget.com/2017/06/21/esa-satellite-for-5g-partnership/>).

This is very good endeavor seen from a purely technological view. But have you also considered its ecological ramifications? You surely know that according to WHO mobile communication may cause cancer. And many people suffer from electromagnetic hypersensitivity (EHS). There are even indications that mobile communications are bad for some plants and animals (<https://ehtrust.org/worlds-largest-animal-study-on-cell-tower-radiation-confirms-cancer-link/>).

Please take time to consider the following information: *National Toxicology Program. NTP technical report on the toxicology and carcinogenesis studies in B6C3F1/N mice exposed to whole-body radio frequency radiation at a frequency (1,900 MHz) and modulations (GSM and CDMA) used by cell phones (scheduled peer review, March 26, 2018):*

https://ntp.niehs.nih.gov/ntp/about_ntp/trpanel/2018/march/tr596peerdraft.pdf

As early as 2014 the American mobile communications expert Martin Blank wrote in his book *Overpowered: The traditional distinction between ionizing radiation which is perhaps cancer causing and non-ionizing radiation (mobile communication) is arbitrary*. Noteworthy is also the publication by Riadh W. Y. Habash, *Bioeffects and Therapeutic Applications of Electromagnetic Energy* [London/New York, 2007], 149ff "Bioeffects and Health Implications of Radiofrequency Radiation". In 2014 it was noted in a scholarly article that given the present knowledge especially weak radiation is bad to health (M. Naziroglu/H. Akman, "Effects of Cellular Phone- and WiFi-Induced Electromagnetic Radiation on Oxidative Stress and Molecular Pathways in Brain", in: I. Laher, ed., *Systems Biology of Free Radicals and Antioxidants* [Berlin/Heidelberg, 2014], 2431-2449). The internationally constituted *BioInitiative Working Group* reported too that there are more and more indications of health risks caused by wireless technologies. You can see this at <http://microwavenews.com/news-center/gbms-rising-uk>.

We are sure that your satellite project is already at an advanced stage. But even if much money has been invested, one should consider that it is only a matter of time until the fact of damaging health potential of mobile communications – and especially of 5G-mobile communication – can no longer be overlooked. Therefore we emphatically recommend not to implement the satellite project. We also ask you from "Old Europe" to inform about this other companies pursue similar plans.

It is very important to seriously consider possible health risks and then pursue another path to the future. Dear director Musk, you have shown lately with other projects that you are flexible enough to change your way of thinking. Therefore we take courage to write to you and thank you for your kind consideration.

Sincerely Yours,



Dr. med. dent. Claus Scheingraber
(Chairman)



Roland Wolff
(Expert Medical Physics)

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