
HOUSE CONCURRENT RESOLUTION

REQUESTING THE DEPARTMENT OF HEALTH TO CONDUCT A STUDY ON THE
POTENTIAL HEALTH RISKS OF 5G WIRELESS TECHNOLOGY, INCLUDING
PEER REVIEWED SCIENTIFIC DATA ON 5G, AND A MORATORIUM BE
IMPLEMENTED ON CURRENT AND FUTURE DEPLOYMENT OF 5G AND
RELATED TECHNOLOGY UNTIL THE STUDY IS COMPLETED.

1 WHEREAS, the Precautionary Principle states "[w]hen an
2 activity raises threats of harm to human health or the
3 environment, precautionary measures should be taken even if some
4 cause-and-effect relationships are not fully established
5 scientifically"; and

6
7 WHEREAS, 5G refers to the fifth generation of wireless
8 technology; and

9
10 WHEREAS, the intended purpose of 5G is to provide faster
11 and higher capacity transmissions to carry the massive amount of
12 data that the wireless industry projects will be generated from
13 the Internet of Things, smart cities, driverless cars, video
14 streaming, augmented reality, and more; and

15
16 WHEREAS, higher millimeter wave frequencies needed for 5G
17 have never been used for the Internet and telecommunications
18 technology and do not travel well through buildings, and will
19 likely require development of numerous small cell wireless
20 telecommunications facilities; and

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22 WHEREAS, human exposure guidelines for radiofrequency
23 microwave radiation used by the Federal Communications
24 Commission (FCC) are more than 20 years old, and address only
25 thermal, not biological impacts of exposure; the guidelines have
26 been the subject of an open FCC docket since 2013 with no
27 resolution, creating an uncertain regulatory environment; and



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1 WHEREAS, there have been studies that have shown exposure
2 to various levels and frequencies of wireless radiation may
3 cause harm to people and the surrounding environment; and
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5 WHEREAS, oxidative damage, altered intracellular signaling,
6 membrane effects, direct effects on proteins, and free radical
7 production have all been identified as potential biological
8 effects of exposure to radiofrequency microwave radiation; and
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10 WHEREAS, in 2011, the International Agency for Research on
11 Cancer of the World Health Organization classified
12 radiofrequency electromagnetic fields as possibly carcinogenic
13 to humans based on an increased risk of glioma, a malignant type
14 of brain cancer, associated with wireless phone use; and
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16 WHEREAS, a ten-year, \$30-million dollar study was conducted
17 by the National Toxicology Program of the United States
18 Institutes of Health to determine whether exposure to
19 radiofrequency radiation from cell phones and other wireless
20 devices can cause cancer, and in 2018 concluded that high levels
21 of radiofrequency radiation exposed to certain animals led to
22 cancerous heart tumors; experts have labeled this study as
23 "clear evidence" of a link between radiofrequency microwave
24 radiation and increased cancer risk; and
25

26 WHEREAS, a 2018 study by the Ramazzini Institute in Italy
27 found that male rats exposed to the radiofrequency radiation
28 emitted by distant cell towers had a greater chance of
29 developing heart tumors than those which were not exposed; and
30

31 WHEREAS, more than 250 medical and public health
32 professionals have signed a joint statement urging government
33 officials to consider the latest science on microwave radiation
34 and human health, especially as it may be resulting in abnormal
35 brain development in unborn children; and
36

37 WHEREAS, on April 25, 2018, the Honolulu City Council
38 passed Resolution 18-34, FD1, which approves a non-exclusive
39 license agreement with Mobilitie, LLC, to install small cell
40 telecommunications facilities on city-owned street lights within
41 the City's right-of-way; and



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1 WHEREAS, on June 21, 2018, the Governor signed Act 49,
2 Session Laws of Hawaii 2018, which establishes a process to
3 upgrade and support next-generation wireless broadband
4 infrastructure throughout the State by standardizing the process
5 of 5G small cell wireless technology deployment; and
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7 WHEREAS, these small cell telecommunication facilities will
8 be located near residences, schools, medical facilities,
9 restaurants, shopping centers, and government agencies; and
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11 WHEREAS, the effects of 5G technology on biological life
12 remain uncertain and more research needs to be conducted on the
13 possible effects of introducing 5G technology on the State's
14 residents and the environment; now, therefore,
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16 BE IT RESOLVED by the House of Representatives of the
17 Thirtieth Legislature of the State of Hawaii, Regular Session of
18 2020, the Senate concurring, that the Department of Health is
19 requested to conduct a study on the potential health risks of 5G
20 wireless technology, including peer reviewed scientific data on
21 5G; and
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23 BE IT FURTHER RESOLVED that in conducting its study, the
24 Department of Health is requested to summarize existing
25 published reports and studies that have evaluated the effects of
26 5G wireless technology on biological life, highlighting any
27 information that can apply to the State; and
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29 BE IT FURTHER RESOLVED that the Department of Health is
30 requested to implement a moratorium on current and future
31 deployment of 5G and related technology until the study is
32 completed; and
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34 BE IT FURTHER RESOLVED that the Department of Health is
35 requested to submit a report of its findings and
36 recommendations, including any proposed legislation, to the
37 Legislature no later than twenty days prior to the convening of
38 the Regular Session of 2021; and



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1 BE IT FURTHER RESOLVED that certified copies of this
 2 Concurrent Resolution be transmitted to the Director of Health.
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OFFERED BY:

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