



Office of the Prime Minister's Chief Science Advisor
Kaitohutohu Mātanga Pūtaiao Matua ki te Pirimia

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Te 5G i Aotearoa

Kua tīmata te tūhonotanga o te whatunga 5G i Aotearoa, otirā, ka whānui ake te horapa hei ngā tau e haere ake nei. He nui ngā pātai kua tau mai mō te kaupapa nei, nō reira kua whakaritea e mātou ētahi mōhiohio e wātea ana ki te marea.

He aha te 5G?

Ko te whakamāoritanga o te 5G ko te taumata tuarima. Koinei te whatunga waea kawekawe hou o te wā, he mea whai ake i te 2G, te 3G me te 4G. He nui ake ngā painga ā-hangarau o te whatunga 5G ā, kua tīmata kē tana whakaūnga huri noa i te ao, otirā, i Aotearoa nei anō hoki.

Ko ngā whatunga waea kawekawe katoa ka whakamahi i ngā ngaru irirangi hei tuku i ngā momo raraunga. Pēnei tonu i te aho, ko te ngaru irirangi he momo hihi autōhiko. He mea whakamahi ngā ngaru irirangi i Aotearoa nei mō te irirangi nō mai anō i ngā tau o te 1920, ā, mō ngā waea pūkoro nō mai anō [i ngā tau o te 1980](#). Pēnei i ngā ngaru e papaki mai ana ki uta, ka rerekē te kaha (arā, te nui), me te auau (ko te auau o te taenga mai, he mea hāngai ki te tawhiti i waenga i ngā ngaru, otirā, ko te roa o te ngaru) o ngā ngaru irirangi. Mā te auau (te roa rānei o te ngaru), me te kaha o tētahi ngaru autōhiko e tau ai te nui o te raraunga ka kawea e ngā ngaru, me te kaha o te iatohu, otirā, mēnā rānei e mōrearea ana ngā ngaru, kāhore rānei.

I te tūhonotanga tuatahi i Aotearoa, ka whakamahi te 5G i ngā aratuku e ōrite ana ki ērā e whakamahia [ana e te 4G](#). Hei tōna wā, ka whakamahi te whatunga i ētahi aratuku auau noa atu (arā, ko ngā ngaru e poto iho ana) – ka kīia he ngaru mitamano. He tata ake ēnei ki te momo ka whakamahia i ngā whakawhitiwhitinga ā-amiorangi me ētahi hihiani waka.

Kāore i pērā rawa te māmā o tā te ngaru mitamano ngoto i ngā momo āraitanga, nō reira me nui ake ngā pourewa mō te whatunga 5G tēnā i te 4G, e ōrite ai te whānui o te tūhonotanga. Ahakoa e kore e pērā rawa te kaha e rangona ai te werawera haere, arā tonu ngā [paerewa ā-ao](#) ka whakaūngia hei whakawhāiti i te pāpātanga, otirā, ka āta aroturukingia kia kore ai tēnei āhuatanga e hua ake. He mea āta whakarite ngā paerewa kia whānui ai te pae haumaruru, e tawhiti mārika ai te nui o te pāpātanga ki ngā ngaru irirangi i ngā taumata whakahaumaruru mō ngā pākinotanga o te werawera. Ka whai a Aotearoa i ēnei paerewa ā-ao.

Kua puta ētahi māharahara ki te haumarutanga o te whatunga 5G, he kaha ake nō tana whakawhirinaki atu ki te pūmanawa rorohiko tēnā i te 4G, otirā ka whakamahia te whakahaere rorohiko ā-kapua. E mōhio ana Te Tira Tiaki (GCSB) o Aotearoa ki tēnei, otirā ka whai [kia aukati, kia whakaiti](#) hoki i te tūraru haumaruru ka tūpono pā ki ā tātou hangarau whakawhiti kōrero i a tātou ka urutau ki te hangarau hou nei.

E ai ki ngā [taunakitanga ā-pūtaiao](#) o te wā, me uaua rawa ka pā kinotia te hauora o te ira tangata, o te taiao rānei. Karekau rawa he taunakitanga e paku tūhono ana i te Mate Kowheori ki te 5G.

Me aroturuki tonu a Aotearoa i ngā tūraru pāpātanga, me mātua whakarite hoki kia ū tonu ki ngā paerewa haumaruru ao whānui, kia āta whai haere anō i ngā rangahau hou.