



Parliamentary Commissioner for the Environment
Te Kaitiaki Taiao a Te Whare Pāremata

Te wetewete i ngā mōhiohio taiao o Aotearoa

Tuhinga Whakarāpopoto

Hūrae 2026



Ka taea tēnei tuhinga te tārua ina whakaatuhia te mātāpuna. E wātea ana tēnei pūrongo me ētahi atu tānga hoki nā Te Kaitiaki Taiao a Te Whare Pāremata ki www.pce.parliament.nz.

**Parliamentary Commissioner for the Environment
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Hūrae 2026

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He mea waiwai ngā mōhiohio tino kounga kia pai ngā whakatau, kia angitu hoki te whakahaere taiao me te noho haepapa tūmatanui. Ki te whakapai ake i ngā ara e kohikohi ana, e whakahaere ana, e whakamahi ana anō hoki tatou i ēnei mōhiohio ka āwhinatia a Aotearoa kia angitu te urupare ki ngā wero ā-taiao.

Tīmatanga

I au e tū ana hei Kaitiaki Taiao a Te Whare Pāremata, he riterite taku whakaatu i ngā tino ngoikoretanga i roto i te pūnaha mōhiohio taiao o Aotearoa.

Ka whakaemi taku pūrongo ‘Te wetewete i ngā mōhiohio taiao o Aotearoa’ i aua āwangawanga, ā, ka whakahua me pēhea e pai ake tā tatou whakamahi i ngā mōhiohio onāianeī, i a tātou e whakangao ana, e tūhono atu ana hoki ki ngā hangarau auaha e taea ai ngā māramatanga hōhonu ake ki tō tatou taiao.

Rauemi waiwai

Kei roto i ngā mōhiohio taiao ko ngā raraunga i kohikohia e te aroturuki, ngā tirohanga, te rangahau, te whakatauiria me ngā tirohanga mō te hau takiwā, te wai, te whenua, te kanorau koiora me te āhuarangi. Kāore i te tū tonu te taiao me ngā mōhiohio e kohikohia ana mōna. Kia whaitake me kohikohi tonu, me whakahou tonu hoki ngā mōhiohio taiao.

He rawa taketake tēnei e āwhina ana i ngā tari kāwanatanga, ngā kaunihera, ngā pakihi, ngāi Māori me ngā hāpori kia mārama ki ngā pēhanga ā-taiao, kia whai hoki i ngā panoni mauroa. He whakaurunga matua ki te whakatau mō te taiao, te whakahaere adapative me te tuaritanga taiao tautini. Ka whakaiti i te rangirua, i ngā utu tautuku hoki, ā, ka tautoko i ngā whakataunga whakangao.

Tē taea e te hunga whakatau te whakatau mēnā he uara pai tō te utu moni mō te taiao ki te kore e ngākau titikaha ki te tika o te tautuhi me te whai i ngā putanga taiao.

Ngā wero onāiane

Riterite tonu te āraitanga o ngā whakataunga tika, utu pai hoki nā te iti rawa o ngā mōhiohio te kore āhei ki te uru rānei. Waihoki, i ētahi wā, kārekau he mōhiohio.

E kohikohia ana ngā mōhiohio taiao e te huhua o ngā rōpū whakahaere tūmatanui, tūmataiti hoki mō ngā take maha, e waihanga ana i te horanuku mōhiohio i whatiwhatia, ā, kārekau ōna paerewa raraunga, tōna whakahaere, tōna tirohanga whānui kotahi. Nā reira, he āputa raraunga i ētahi wāhi, he tārua i ētahi atu wāhi. He uaua te kimi i ngā huinga raraunga uara, kāore e taea te whakatapoko e te hunga e hiahia ana, e ngaro ana rānei i roto i ngā kōpapa ā-rōpū whakahaere.

Hui katoa, ko te tikanga ia, he pūnaha:

- whīwhiwhi, whatiwhati hoki
- e pāngia ana e te tārua, ngā inaki me ngā āputa
- kāore he paerewa ōrite
- He uaua te whakatapoko, ā, kāore e tino taea te whakamahi anō.

Ko te pūtake o te nuinga o ēnei take kāore he ārahi, kāore i te pai te ruruku, ā, he hārakiraki te tuku rauemi. Hei urupare i aua take me panoni te whakahaere o te pūnaha, me piki hoki te whakamahi o ngā hangarau hei whakapai ake i te kohikohinga, te pāhekohekotanga, te tātaritanga me te tuaritanga o ngā mōhiohio.

Te waihanga i te pūnaha kaha ake

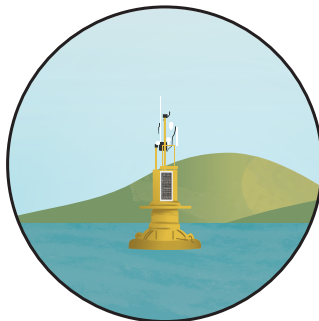
Te whakatinana i ngā hangarau auaha

E panoni ana ngā ahunga whakamua tere o te hangarau paerongo, te hātepe raraunga me te tūāhanga matihiko i tā tātou aroturuki i tō tātou taiao (Hoahoa 1). E whakatuwhera ana ēnei ahunga whakamua i ngā ara hou me ngā kōwhiringa hou ki te whakapai ake i tō tātou māramatanga, tuaritanga hoki o te taiao o Aotearoa, ki te aromatawai hoki i te pai o ngā kaupapahere taiao.

Rongo
mamao



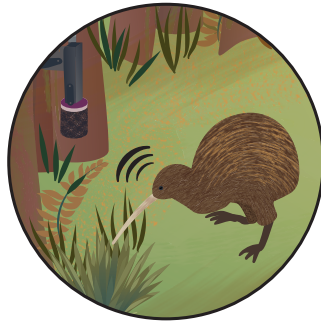
Aroturuki
kounga wai



Aroturuki
ā-kāmera



Aroturuki
oro

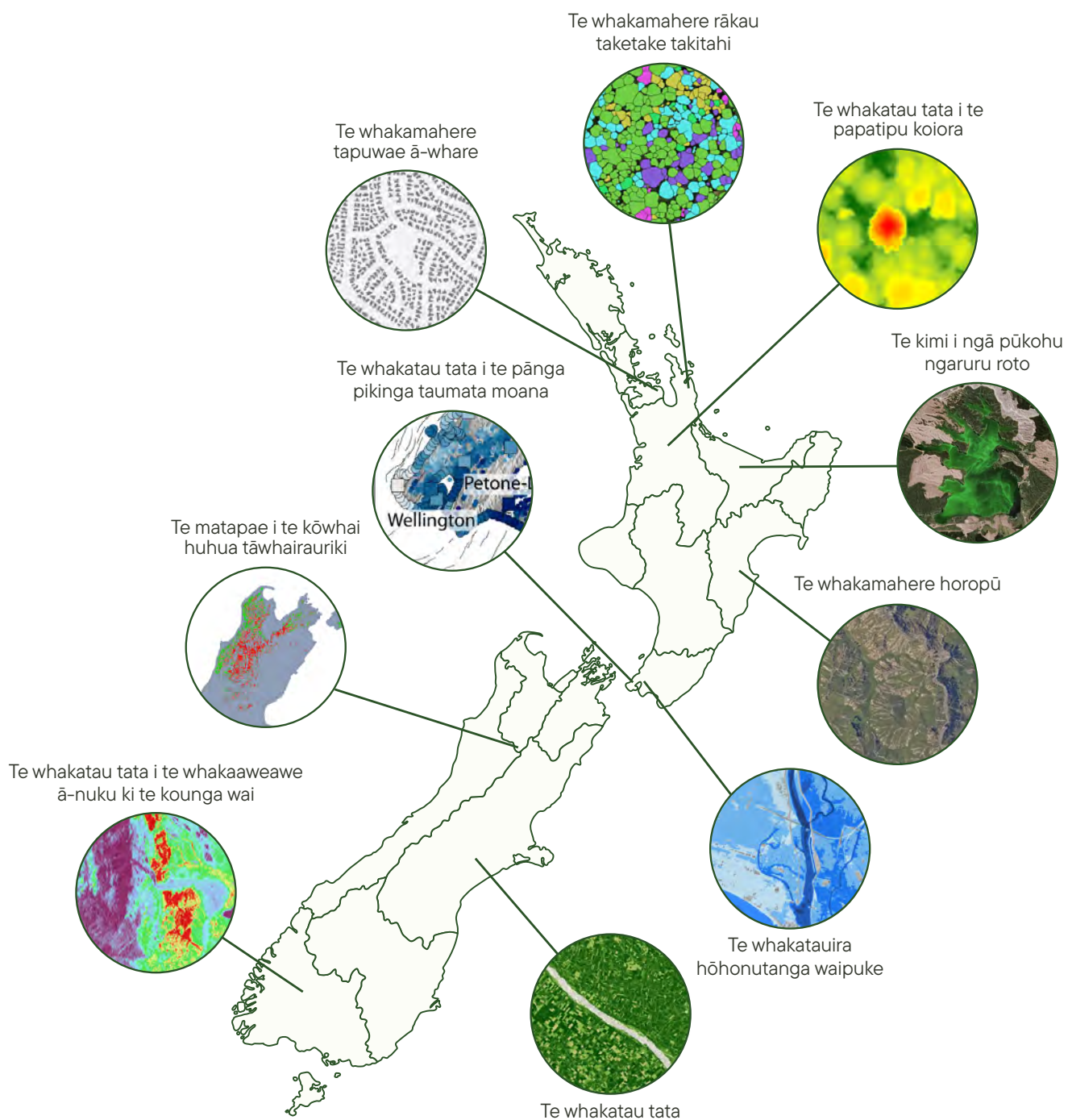


Aroturuki
eDNA



E matapaki ana te pūrongo i ngā hangarau aroturuki e rima ka whakapiki i te painga o tō tātou pūtake mōhiohio taiao ina whakatinanahia whānuitia.

Mā te rongo mamao e āhei ana te kohikohi whānui, auau hoki o ngā raraunga – i te nuinga o te wā ki ngā wāhi kāore e tino taea te whakauru. Ahakoa ehara te rongo mamao i te mea hou, nā te tere o te whanaketanga kua heke te utu, ā, kua huakina ngā tatau ki ngā taupānga hou.



E whakarato ana te rongo mamao i ngā māramatanga pai puta noa i Aotearoa. Kei roto i ngā taupānga ko ngā āhuatanga whakamahere pērā i ngā whare me ngā horonuku, te tāpae ki te whakatauta waipuke me te pikinga o te taumatua moana, me te whakatauta o te hauora tipu me te papatipu koiora ngahere. He nui ngā taupānga e whakatinana ana i te atamai hangahanga hei whakapai ake, hei whakaaunua hoki i te tātaritanga.

Ko te ahunga whakamua o te aroturuki auau aunoa ā-wāhi, e whakamōhio mai ki a tātou e aha ana nō nā tata nei. He tino kounga te aroturuki auau o te wai ki te tautoko i ngā whatunga onāianeī, nā te mea ka taea te kite i ngā taiopenga ohorere, tere hoki me ngā panoni pōturi, paku rānei.

Kua piki te tuku i ngā kāmera me ngā taputapu aroturuki (oro) ki te whakapiki i te pai o te aroturuki whakahaumarū koiora, kanorau koiora hoki ki ngā wāhi mamao, tae atu ki ngā taiao moana, mō te wā tino roa. E whaihua ana ngā kāmera ki te mātai i ngā momo tē kitea, moeao rānei. Waihoki, e tino whaihua ana te aroturuki oro mō te kimi i ngā momo oro, pērā i ngā kiwi me ngā whāngote moana.

He hangarau auaha hoki te DNA ā-taiao (eDNA). Mā te tātari te rawa ira e kitea ana i roto i te wai, te oneone, te hau takiwā rānei, ka taea e te aroturuki eDNA te āwhina kia aromatawai i ngā hauora o te pūnaha taiao, kia kimi i ngā momo urutomo, kia aroturuki hoki i ngā putanga taiao. Nā te whakamahinga o te eDNA i āwhina te tautuhi i ngā momo ika wai māori hou, kia kimi hoki i ngā whakamōrea whakahaumarū koiora.

Waihoki, nā ngā whanaketanga o te atamai hangahanga (AI) me te tūāhanga matihiko i ngāwari ake te kohikohi me te hātepe mōhiohio ki te rahi e kore e taea i mua. Ko te mahi matua a te AI he hangarau whakamana e whakapiki ai i te āhei ki te hātepe, whakamārama, whakamahi hoki mōhiohio. Hei tauira, e whakamahia ana ki te whakamahere i ngā rākau taketake kotahi mō ngā aromatawai kanorau koiora, waro hoki, ā, ki te tātari ingā raraunga auau nui i ngā taputapu ā-wāhi hou pērā i ngā paerongo aroturuki kounga wai.

Ko ngā whanaketanga tūāhanga ōkiko, ā-matihiko hoki, pērā i te hātepe rō paerongo (rorohiko tapatahi), hangarau whakawhiti kōrero me te rorohiko ā-kapua, e whakamana ana hoki i te

whakamahinga pai ake o ēnei hangarau hātepe raraunga panoni, paerongo hoki.

He panoni nui tō ēnei hangarau e ahu whakamua ana mō te pūnaha mōhiohio taiao o Aotearoa. Heoi anō, ka tino puta mai ēnei painga mēnā ka haere ngātahi me ngā whakahou whānui ki te mana urungi, ki ngā paerewa, ki te whakahaere raraunga, ā, mā wai e mahi te aha.

Te urupare i ngā wero ā-pūnaha

He maha ngā pūtake onāianeī i roto i tō tātou pūnaha mōhiohio taiao i puta mai i te kore ārahi. Kāore he 'kaitautoko' me te tirohanga matua e tautoko ana, e kōkiri panoni ana hoki puta noa i te pūnaha. He mea nui te hautūtanga kaha kia whakarite kaupapa matua, kia whakarite hoki i ngā whakangao rautaki tautini e hiahiatia ana ki te waihanga i te pūnaha mōhiohio taiao mō te anamata – tae atu ki te raukaha me te āheinga o ngā kaiwhakamahi ki te whakapā atu ki taua pūnaha.

He ōrite te hiranga o te whakapono. E whakawhirinaki ana te whakapono a te hunga tūmatanui ki ngā mōhiohio kōataata, whakatapoko, pono hoki. Ahakoa me whakahaumarū ētahi mōhiohio, kāore he take o ētahi ārai ki te tuaritanga. Ka tautoko ngā mōhiohio taiao tuwhera i te haepapatanga, ka tautoko hoki i te taupatupatu tūmatanui whaimōhio.

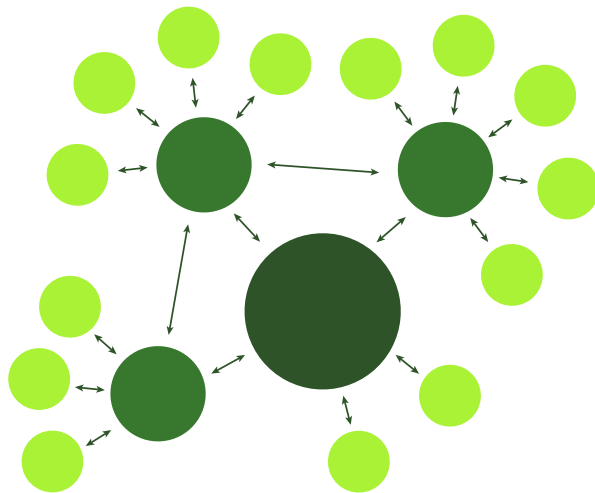
Ki te whakapiki i te māramatanga e pā ana ki ngā herenga ā-ture, ngā mātāpono tuari raraunga ōrite me te tūāhanga matihiko pai ake e ngāwari ake ai mā ngā rōpū whakahaere ki te tuari, ki te whakamahi tika hoki i ngā mōhiohio. He waiwai ngā paerewa raraunga ōrite, e whakatūturu ana te kohikohi me te whakahaere o ngā mōhiohio kia ngāwari te kimi, te tuari, te whakatōpū, te whakariterite hoki.

Whakakapinga

Kei Aotearoa tētahi kōwhiringa motuhake kia urupare i ēnei take tūroa. E homai ana ngā whakahounga onāiane i te whakahaere rauemi, pūtaio, ratonga wai, kāwanatanga ā-rohe, pūnaha pūrongorongo whāomoomo, taiao hoki i te kōwhiringa wā kotahi i tēnei whakatipuranga ki te tuku mōhiohio ki te iho o te whakahaere taiao. Ina hopukia tēnei kōwhiringa kia whakatū i te hautūtanga kaha ā-motu, paerewa raraunga ōrite me te tūāhanga tuari e angitu ai ngā whakahounga nei. Mā te tūāpapa kaha e āhei ana te whakatinanatanga whānui o te ahu whakamua ā-hangarau, me te aha, e pai ake ai te aroturuki, ngā māramatanga taiao hōhonu, te whakatau whaimōhio hoki.

E marohi ana ngā whakapuakitanga i roto i Tahua 2026 kua whakatinanahia pea te tohutohu i roto i taku tuhinga 2025 ki te whakatū i te pūnaha mōhiohio (tirohia foahoa).¹ He tīmatanga pai tēnei, me tōna \$41 miriona hei whakangao ki ngā tūāpapa matihiko o te pūnaha whakamahere hou me te \$68.4 miriona anō mō ngā raraunga taiao e noho ana hei tūāpapa.² Ka tohu tēnei whakangao i te tīmatanga pai ki te whakapai ake i ngā mōhiohio taiao me te pūnaha matihiko e tautoko ana i aua mōhiohio, engari kua e noho tēnei hei mahi kotahi. Kia whai hua i te pūnaha whakatōpū, i ō tātou mōhiohio taiao hoki, me whakatūturu tātou ka haere tonu tēnei whakangao tuatahi, ā, ka whakawhānuitia i tua atu i te pūnaha whakamahere noa iho.

Me whakarite ngā mōhiohio taiao hei tūāhanga ā-motu waiwai, ā, me pēnā te whakahaere.



A federated system connects data and information held across multiple organisational systems through shared standards and coordination arrangements.

- 1 PCE, 2025. A federated system to improve environmental information. www.pce.parliament.nz/media/ksxlm5rj/pce-note_federated-environmental-information-system-april-2025.pdf
- 2 Bishop, C., Watts, S. and Court, S., 2026. Funding to boost resilient planning system. Press release, 28 May 2026. www.beehive.govt.nz/release/funding-boost-resilient-planning-system; Grigg, N., 2026. Environmental Reporting Act legislation introduced. Press release, 16 June 2026. www.beehive.govt.nz/release/environmental-reporting-act-legislation-introduced; The \$68.4 million includes \$7.4 million to be invested in the New Zealand Flood Map.

Ngā Tohutohu

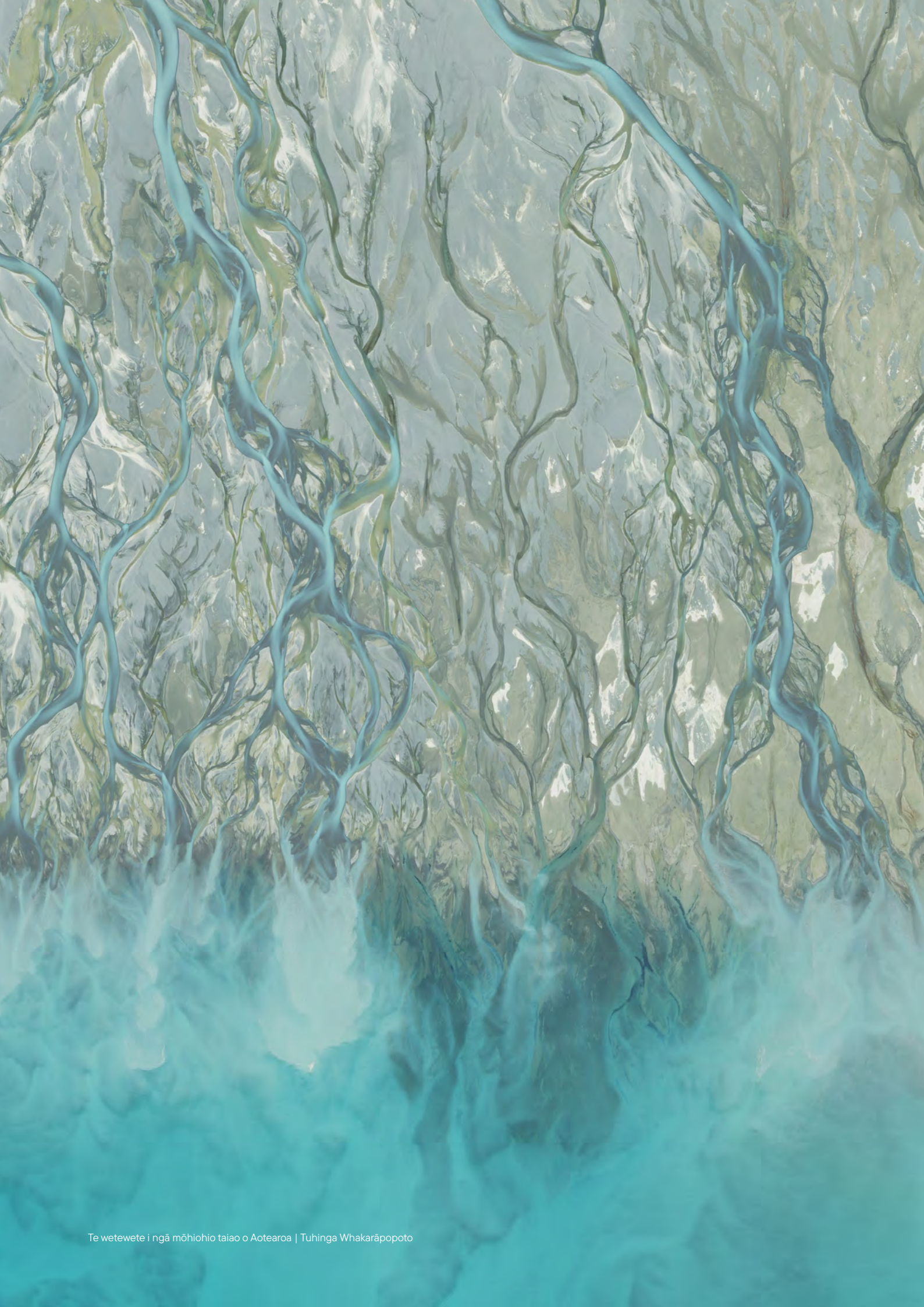
I roto i *Te wetewete i ngā mōhiohio taiao o Aotearoa*, e toru aku tohutohu e urupare ana i te ruruku me te hautūtanga o te pūnaha taiao o Aotearoa. E hāngai ana te tohutohu tuawhā ki te whakatinanatanga o ngā mahere mokowā ā-rohe ki te whakatūturu i te kōataata o ngā mōhiohio e noho nei hei tūāpapa whakawhanaketanga. Ko ngā tohutohu:

- 1 Me whakawhanake e te Manatū Taiao te mahere taiao tautini mō Aotearoa e whakatakoto ai i te hātepe kia:
 - whakatinana i te pūnaha mōhiohio whakatōpū
 - whakapai ake i te whakamahi o ngā raraunga onāiane
 - wetewete i te pito mata o ngā hangarau auaha.Me whakauru te urupare i ngā take o te pono, te āhei, te tuari, te tūmataiti, te mana raraunga, te whiwhinga mōhiohio, me te whakamahinga hangarau.
- 2 Me whakahou te Kāwanatanga i te mana whakahaere o te Mana Rauhi Taiao kia tuku i te haepapatanga mō te ruruku, te hautūtanga me te whakahaere o te pūnaha mōhiohio taiao o Aotearoa.
- 3 Me whakahau te Kāwanatanga i te Mana Rauhi Taiao hou kia tautuhi, kohikohi, tiaki hoki i ngā putanga rongo mamao waiwai hei painga mō te katoa o Aotearoa.
- 4 Me whakature e te Minita e noho haepapa ana mō te Pire Whakamahere (hei te wā e whakamanahia ai) me whāki ngā kaunihera i ngā mōhiohio e whakawhirinakihia ana hei whakawhanake i ngā mahere mokowā ā-rohe e marohitia ana. Me whakatūturu hoki ka āhei ngā tāpaetanga mō ēnei mahere te kōrero mō te nui, te iti rānei o ngā mōhiohio i te wā e whakamōhiotia ai.



Simon Upton

Parliamentary Commissioner for the Environment
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