

Ngā Koiora Tuku Iho

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New Zealand's Biological Heritage National Science Challenge

Te Tauākī Ngākau Titikaha ki Te Tiriti o Waitangi

E titikaha ana Ngā Koiora Tuku Iho ki te whakaū i Te Tiriti o Waitangi (Te Tiriti) hei tūāpapa mō te tiritiringa o te mana me te rawa i waenga i ngā tāngata whenua me ngā tāngata Tiriti, ko rātou hoki ngā hunga whai wāhi ki te whakaaetanga. He whakaaetanga tūroa Te Tiriti mō te pātuinga roa e puta ai he painga ki ngā taha e rua, ko te whakapono, ko te whakaute tētahi ki tētahi te muka tuitui.

Ko ngā mātāpono matua ēnei o Te Tiriti: (1) **Kāwanatanga**, (2) **Tino Rangatiratanga**, (3) **Ōritetanga**, (4) **Wairuatanga**. Ka hua ake i ēnei tētahi anga mō Ngā Koiora Tuku Iho e komokomohia atu ai tō mātou titikaha ki Te Tiriti ki ō mātou awhero, tā mātou rautaki, me ngā tikanga mahi e ārahi nei i te whakatinanatanga o tā mātou whāinga roa.

Te Wawata o Ngā Koiora Tuku Iho o Aotearoa

Ka mauri ora ngā koiora tuku iho

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Te Whakahāngaitanga o Te Tiriti

1

Kāwanatanga:

ka tōtika, ka tōkeke ngā whakahaere, hei painga mō te katoa

- Ka mahi pātui ngā tāngata whenua me ngā tāngata Tiriti i runga i te ngākau whakaute.
- Ka arahina ngātahitia ō mātou ahunga, ā mātou mahi me ā mātou whakatau i runga i te whakaaro, i te titiro a te tangata whenua me te tangata Tiriti, e puta ai he hua ki ngā hoa pātui e rua.

2

Tino Rangatiratanga:

te mana motuhake o te iwi Māori

- E whakatūturu ana, e hāpai ana mātou i te rangatiratanga me te mana motuhake o te tangata whenua.
- E tiritiri ana mātou i te mana me te rawa hei whakamana, hei tautoko i ngā mahi, ngā whakataunga me ngā putanga e arahina ana e te tangata whenua.

3

Ōritetanga:

te mana taurite mō ngāi Māori

- Ka hua ake he putanga taurite i ā mātou mahi ki te tangata whenua.
- E oke ana mātou kia maha ake ngā putanga pai ki te tangata whenua, hei rongoā i ngā tītahatanga kei te pūnaha.

4

Wairuatanga:

te hāpai i ngā whakapono me te taha wairua

- E komokomohia ana, e whakamanaia ana ngā whakaaro Māori, tae atu ki ngā uara me ngā whakapono Māori i roto i ā mātou mahi.

Ngā Koiora Tuku Iho Te Tauākī Ngākau Titikaha ki Te Tiriti o Waitangi

E tatū pai ai ngā takune o Te Tiriti ki te ripa-tūtaki o pūtaiao rāua ko kaupapa-here – me te pūnaha RSI anō hoki – me mātua panoni te pūnaha. Mehemea ka hāpaitia tahitia ngā tauira o te mana motuhake me te mana kōtui, mā roto mai i ngā whakaritenga auaha, ka tupu he hononga tūturu ake, torokaha ake, whaihua ake. E tutuki ai ētahi whakahoutanga i te anga, me āta poipoi ngā kaihautū Māori, me tuku anō hoki he rawa ki a ngāi Māori.¹

Nā Te Tiriti o Waitangi (Te Tiriti) i whakatūturu te tino rangatiratanga o ngā hapū, nāna anō i para te huarahi mō tētahi pūnaha whakahaere i ngā tāngata Tiriti (arā, te kāwanatanga). E toitū tonu ana, mā roto i te ngākau titikaha o ngā taha e rua ki te tū ngātahi hei kaiārahi i Te Tiriti, hei painga mō ngā taha e rua.

I roto i ngā tau, kua takahia ngā kupu o Te Tiriti, kua tāmia te mātauranga Māori, kua noho mōrearea anō hoki te taiao. I raro i Ngā Koiora Tuku Iho, e āhei ana mātou ki te whakatika i tēnei tūāhua – ka mutu me tino pēnei e eke panuku ai ngā mahi tiaki i ngā koiora tuku iho, ahurei tonu, o Aotearoa. Mā Te Tiriti e tūtohu mai tētahi anga e kitea ai he rongoā auroa ki ngā raru e pāpā mai ana ki te motu nei. Māna e whakahokia ai te mātauranga ki waenga pū o ngā mea katoa, māna e tautika anō ai ngā hononga, māna anō e manaakitia ai ngā kupu me te whakaaetanga o Te Tiriti.

He kawenga matua tā Ngā Koiora Tuku Iho i roto i tēnei – kua i ngā mahi anake e mahi nei mātou ināianei, engari i roto i tā mātou e tuku iho ai ki ngā uri whakaheke. Ko te whakamananga o te Tiriti kei te pokapū o te whāinga whānui me te whakarereanga iho o Ngā Koiora Tuku Iho.

Ā Mātou Okenga i Raro i Te Tiriti

Mō te ahunga rautaki o Ngā Koiora Tuku Iho, me whakatinana ngā kupu o Te Tiriti. I te tūārere whakamutunga o te kaupapa nei, ka oti i a mātou ēnei mahi:

1. Te tāmau i te ao Māori ki te pūnaha pūtaiao, me ōna anō āhuatanga hautū, kōkirikiri e tika ana, mā:

- i. te tautuhi me te waihanga inenga e hāngai ana ki te kairangi i te pūtaiao Māori;
- ii. te whakatauiria tūāhanga e tautokona ai, e angitu ai tētahi pūnaha pūtaiao Māori;
- iii. te whakatupu i te mārama ki ngā pānga o WAI 262 puta noa i te rāngai, hei tauira, ko te āta tohutohu me pēhea te hāpai i te haumarua ahurea i ngā mahi mō ngā momo e kīia ana he taonga;
- iv. te manaaki tahi i ngā kawatau tiketike ake mō Te Tiriti, i te taha ki ngā kaiwhakatū me ngā hoa pātui o Ngā Koiora Tuku Iho;
- v. te miramira i ngā whakararu kei ngā pūtea e tukua ana ki ngā rangahautanga e arahina ana e te Māori;
- vi. te tātari mai me te tukutuku i ngā mea e ākona ana, hei tārai i ngā panonitanga whakamana i Te Tiriti i te pūnaha pūtaiao.

¹ Kukutai, T., McIntosh, T., Boulton, A., Durie, M., Foster, M., Hutchings, J., Mark-Shadbolt, M., Moewaka Barnes, H., Moko-Mead, T., Paine, S-J., Pitama, S. & Ruru, J. (2021). *Te Pūtahitanga: A Tiriti-led science policy approach for Aotearoa New Zealand*. Auckland: Ngā Pae o te Māramatanga.

2. **Te whai kia nui ake ngā rangahautanga e arahina ana e te Māori**, hei taupua i te tōnuitanga o ngā momo noho taonga, hei whakamana anō i a ngāi Māori.
3. **Te āta whakatāiri i te kaupapa-here Vision Mātauranga** i ngā rangahau me ngā kawenga o Ngā Kōiora Tuhu Iho, mā te kawē tonu, mā te whakakaha ake anō hoki i ngā mahi mō te Vision Mātauranga (tirohia te Āpitihanga 1).
4. **Te arotake i ā mātou mahi i runga i te anga hāpai i Te Tiriti**, he mea waihanga hei arotake i ngā keonga me ngā putanga whaikiko e hāngai pū ana ki ngā tukanga arotake i Ngā Kōiora Tuku Iho.

Hei whakatutuki i tēnei:

- Ka whakawāteahia ngā rawa e oti ai ngā mahi nei – tae atu ki te whakapiki i te tokomaha me te raukaha o ngā kaimahi Māori, mātua rā ērā kei ngā tūranga hautū; ā,
- Ka uru te katoa o te whakahaere ki ngā mahi me ngā haepapa o te hāpai i Te Tiriti.

Āpitihanga 1 – Ngā okenga mō te Vision Mātauranga²

Vision Mātauranga. Ko te whakatinana i te kaupapa-here Vision Mātauranga, te komokomo atu i te mātauranga Māori, ngā rangahau Māori me ngā rangahau Kaupapa Māori ki te pūtaiao o te Rātō tētahi o ngā kahanga o Ngā Koiora Tuku Iho. Koia hoki tētahi o ngā whāinga tōmua a te Mana Rangatira Governance Group (MRGG, te mana arataki taha Tiriti). I toritori tonu ngā mema Māori o te MRGG (ko ngā tāngata ēnei o te Kāhui Māori i mua) i te tāraitanga o ō mātou ahunga whakamua, me te tāmutanga o te ao Māori ki tō mātou wawata, ō mātou uara me ā mātou ritenga. Kei te mahi mātou kia whanake tēnei angitu, kia mau tonu ai te haere pātui me te mana taurite i Ngā Koiora Tuku Iho, ā, kia kitea tonutia ai te hua nui o te tūnga ake o ngā kaihautū Māori me te kaha kuhunga atu o te mātauranga Māori me te titiro Māori ki te katoa o ngā rangahau me ngā kawenga.

Te āhua o tā mātou whakatinana i te kaupapa-here nei, a Vision Mātauranga

Tirohanga whānui

He torokaha ngā hono o ngāi Māori ki ngā koiora tuku iho o Aotearoa. He taonga tuku iho anō hoki ngā whakaaro me ngā pūnaha whakapono o te Māori, ā, e tika ana koinei hei tūāpapa mō ngā mahi whiriwhiri whakatau, arataki, tautiaki anō hoki. Kua āta kauawhi mātou i te ao Māori i Ngā Koiora Tuku Iho, i te mea he whakakaha tonu tā ngā uara nei i tō mātou titikaha ki te whakarite i tētahi whakarereenga pai ki te pūnaha pūtaiao, auaha o Aotearoa. Kei te kauawhi anō mātou i te tauākī whāinga whānui a Vision Mātauranga, koia tēnei: 'Ko te whakapuāwai i te pitomata auaha o te mātauranga, ngā rawa me ngā tāngata Māori, hei āwhina i Aotearoa nui tonu ki te waihanga i tētahi anamata pai'.

Nā ā mātou mahi ā mohoa noa nei, kua āhei pea mātou ki te whakapiki i te titikaha me te noho hei hoa pātui whakaute i ngā taumata katoa o Ngā Koiora Tuku Iho, ā, ki te whakatauiria i te tū hei kaihautū pai i te whānuitanga atu o te pūnaha auaha o Aotearoa.

Tō mātou angitu ā mohoa noa nei: Kua whakatinanatia te kaupapa-here VM mā roto mai i:

- ngā pātuinga ki ngā iwi, ngā hapū me ngā whānau;
- te whiri taura tangata, me te poipoi i ngā mahi auaha-taihono;
- te mahi auaha me te mahi i runga i te ngākau whakaute ki te whakatutuki i ngā whāinga ngātahi;
- te waihanga kaupapa rangahau pekamātauranga maha e kōtuitui ana i te mātauranga Māori me te tukanga pūtaiao;
- te whakatupu i ngā pūkenga, ngā mātauranga me te raukaha o ngāi Māori;
- te tuku rawa ki ngā rangahautanga e anga whāiti ana ki te VM;
- te whakatupu i te raukaha o ngā kairangahau me ngā kaiwhakamahi rangahau kāore nei i Māori, kia māia ai, kia whakapono ai rātou ki tō rātou āhei ki te hāpai me te whakatinana i te kaupapa-here VM.

² New Zealand's Biological Heritage National Science Challenge Ngā Koiora Tuku Iho Future Strategy 2019-2024 p.2

Ngā takahanga ki tua: Ka whakatinana tonu mātou i te kaupapa-here Vision Mātauranga, ka whakatupu tonu i te angitu, mā:

- **te whakaū i tō mātou titikaha ki te pātuinga**, ki te whakamana hoki i ngā titiro a te ao Māori, i ngā taumata katoa o Ngā Koiora Tuku Iho;
- te kimi arawātea mō ngā huinga pūkenga tika – tae atu ki ngā pūkenga Māori – mā te whakarite piki tūranga mō ngā **tūranga arataki** i te Wāhanga 2;
- te whakarite arawātea mō ngā **kaihautū Māori e maea ake ana** me ngā tauira hautū-ngātahi;
- te whakatupu tonu i te raukaha o ngā kairangahau me ngā kaiwhakamahi kāore i Māori kia māia ai tā rātou mahi pātui ki te tangata whenua;
- te whakangao me te whakatairanga i ngā **Kaupapa Māori** me ngā **rangahau e arahina ana e te Māori**.

Ka mātua whai kia **tāmaua** ngā kairangahau Māori, ngā iwi, hapū, whānau anō hoki/rānei ki ngā whakangaotanga o Ngā Koiora Tuku Iho, me te arotahi anō o ngā whakangaotanga ki te whakatinanatanga o te kaupapa-here Vision Mātauranga, ā, ka mātua arohia ngā rangahau kei te 3 piki ake rānei i te āwhata (arā, ko ērā rangahau e kohia ai, e komokomohia atu ai he mātauranga Māori, he Māori kei te whai wāhi ki te hoahoanga me te whakatutukinga o te rangahau, ā, e tautoko ana te rangahau i ngā awhero o ngā iwi, hapū, whānau, me ngā painga e puta ana ki a rātou; he pārongo atu anō mō te āwhata VM kei tā mātou pae tukutuku);

- te oke kia āta whai ngā kāhui whakawhanake rangahau i ngā ara **hoahoa-pirirua whitake** me te Māori mō te wāhi ki ngā Hua Rautaki;
- te **kori tōmua** i roto i ngā pātuinga ki ngā kairangahau me ngā hāpori Māori, me te whakangao i ngā rawa o Ngā Koiora Tuku Iho ki te whiri tōmua i ngā taura tangata, kia noho pokapū mai ai te whakapono me te whakaute ki ngā ritenga mahi;
- te oke kia **rere atu, rere mai he mātauranga ki ngā kairangahau me ngā hāpori taketake puta noa i te ao**, me te whai wāhi anō pea ki ētahi tino tukanga ā-ao nei e hāngai ana (hei tauira, te IPBES, arā, te Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services);
- te **mahi pātui** ki ētahi atu rōpū e whai ana ki te whakatupu i ngā pūkenga me te raukaha o ngāi Māori huri noa i te pūnaha pūtaiao o Aotearoa (hei tauira, Ngā Pae o te Māramatanga me Te Pūnaha Matatini) mā: (1) te āwhina i ngā kairangahau Māori ki te whakatakoto CV papai ake, mā te whakarite ara e tū ai rātou hei kaihautū, me te whakaputa tānga kōrero anō; (2) te whakarite ara poipoi, whakapakari i ngā kairangahau Māori e maea ake ana (hei tauira, mā te karahipi); me (3) te whakatakoto ara mō ngā ākonga, mā te whakarite karahipi raumati mā ngā ākonga paetahi, me te tautoko hoki i ngā akoranga paerua;
- te **whakahaumako** ake i ngā whakangaotanga ki ngā rangahau me ngā mahi auaha, mā te whakanui me te komokomo atu i te hua nui o te mātauranga Māori me ētahi atu pūnaha mātauranga ki roto;
- te **tuku rawa i runga i te taurite me te tōkeke** ki ngā pūkenga me ngā mātauranga Māori i roto i tā mātou kōpaki whakangao rangahau;
- te **whakatauiria i te mahi tika**, me te whakaatu mā te whakarahi ake i te matahuhuatanga me te kauawhitanga i te ao pūtaiao, ka puta he hua pai ake mō Aotearoa.

Ngā Koiora Tuku Iho

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New Zealand's Biological Heritage National Science Challenge

Te Tiriti o Waitangi Statement of Commitment

Ngā Koiora Tuku Iho | Biological Heritage National Science Challenge commits to upholding Te Tiriti o Waitangi (Te Tiriti) as the foundation for power and resource sharing between tangata whenua (the first peoples of Aotearoa) and tangata Tiriti (all others who have come here) as parties to an agreement.

Te Tiriti is an enduring agreement for the on-going relationship of mutual benefit, built on trust and respect between the parties.

Te Tiriti articles of: (1) **Kāwanatanga**, (2) **Tino Rangatiratanga**, (3) **Ōritetanga** and (4) **Wairuatanga** provide Ngā Koiora Tuku Iho | Biological Heritage National Science Challenge with a framework for incorporating our Te Tiriti commitment into our aspirations, our strategy and our working practices that guide the delivery of our ambition.

Aotearoa New Zealand's Biological Heritage's Vision

Mauri ora ngā koiora tuku iho – Our biological heritage is thriving

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Te Whakahāngaitanga o Te Tiriti

1

Kāwanatanga:

honourable governance for mutual benefit

- We work respectfully in partnership; as tangata whenua and tangata Tiriti.
- Our approaches, actions, and decisions are led equally by tangata whenua and tangata Tiriti worldviews and perspectives producing outcomes of mutual benefit.

2

Tino Rangatiratanga:

Māori self-determination and sovereignty

- We recognise and enable tangata whenua authority and autonomy.
- We share power and resources to empower and support tangata whenua led actions, decision-making and outcomes.

3

Ōritetanga:

equity for Māori

- We ensure our actions have equitable outcomes for tangata whenua.
- We strive for increased positive outcomes for tangata whenua to redress systematic inequities.

4

Wairuatanga:

upholding belief systems and spirituality

- Māori worldviews, values and beliefs are incorporated and recognised in our work.

Te Tiriti o Waitangi Strategy

For the intent of Te Tiriti to be brought into the science-policy interface – and the RSI system more broadly – changes at the systems level are needed. Enabling both self-determining and co-determining models through innovative mechanisms will allow for a more authentic, engaged and productive set of relationships. The issue of structural reform means investing in Māori leadership and resources for Māori.¹

Te Tiriti o Waitangi (Te Tiriti) affirmed tino rangatiratanga (self-determination and sovereignty) of hapū and allowed for the establishment of a governance system (kāwanatanga) for tangata Tiriti. It endures through honouring the commitment to a relationship of mutual benefit and Te Tiriti leadership between the parties.

The commitments of Te Tiriti have not been upheld, mātauranga Māori has been suppressed and te taiao (natural environment) threatened. As the Ngā Koiora Tuku Iho | Biological Heritage Challenge we have the opportunity and the responsibility to address this – which is vital if we are to protect our unique biological heritage. Te Tiriti provides us with a framework to create enduring solutions to the issues we face as a nation. It guides us in recentring mātauranga Māori and restoring balance in relationships and importantly upholding the articles and agreement of Te Tiriti.

Ngā Koiora Tuku Iho | Biological Heritage National Science Challenge has a key role to play – not only in the work we do now, but in the legacy we leave for future generations. Enacting Te Tiriti is central to the mission and legacy of the Challenge.

Our Tiriti-led Commitment Actions

Ngā Koiora Tuku Iho | Biological Heritage strategic direction requires the implementation of the articles of Te Tiriti. Specifically, in the final stage of the Challenge, we will:

- 1. Embed te ao Māori in the science system with leadership and advocacy** through:
 - i. defining and building metrics for Māori science excellence;
 - ii. modelling infrastructure needed for a supported and successful Māori science system;
 - iii. increasing understanding of the implications of WAI 262 across the sector e.g., providing clear direction on cultural safety working with taonga species;
 - iv. sharing raised Te Tiriti expectations with our Challenge host and partners;
 - v. highlighting the constraints of funding for Māori-led research;
 - vi. distilling and sharing our learnings to shape Te Tiriti honouring change in the science system.
- 2. Enable greater Māori-led** research to support thriving taonga species and empower Māori.
- 3. Elevate the Vision Mātauranga policy** effectively in the Challenge research and activities by continuing and strengthening our Vision Mātauranga work (see Appendix 1).
- 4. Evaluate our work using a Te Tiriti framework** created to evaluate tangible targets and outcomes specific to our Challenge review processes.

To achieve this we:

Resource this work - including increasing number and capacity of Māori staff, particularly at the leadership level; and,

Ensure whole of organisation contribution and responsibility to upholding Te Tiriti.

¹ Kukutai, T., McIntosh, T., Boulton, A., Durie, M., Foster, M., Hutchings, J., Mark-Shadbolt, M., Moewaka Barnes, H., Moko-Mead, T., Paine, S-J., Pitama, S. & Ruru, J. (2021). *Te Pūtahitanga: A Tiriti-led science policy approach for Aotearoa New Zealand*. Auckland: Ngā Pae o te Māramatanga.

Appendix 1 – Vision Mātauranga commitments²

Vision Mātauranga. Implementing the Vision Mātauranga policy, incorporating mātauranga Māori, Māori and Kaupapa Māori research into Western science has been a strength of the Biological Heritage Challenge, and a strategic priority for our Mana Rangatira Governance Group (MRGG, our Te Tiriti-based governance group). Our Māori members of MRGG (formerly Kāhui Māori members) played an active role in shaping our future directions, and in successfully ensuring that te ao Māori is embedded in our vision, values, and ways of working. We continue to build on this success to ensure partnership and equity throughout the Challenge, and clearly demonstrate the enhanced value created through Māori leadership and strong incorporation of mātauranga Māori and te ao Māori views in all research and activities.

How we will give effect to the Vision Mātauranga policy

Overview

Māori have strong connections to the biological heritage of Aotearoa, with valuable intergenerational views and belief systems that must underpin decision-making, governance and stewardship. We have embraced te ao Māori throughout the Challenge, because these values strengthen our commitment to leaving a legacy in the New Zealand science and innovation system. We also embrace the mission statement of the Vision Mātauranga policy: *'To unlock the innovation potential of Māori knowledge, resources and people to assist New Zealanders to create a better future'*.

Our work to date has placed us in a strong position to step up to a new level of commitment and respectful partnership at all levels of the Challenge, and to demonstrate leadership in the wider New Zealand innovation system.

Our work to date has placed us in a strong position to step up to a new level of commitment and respectful partnership at all levels of the Challenge, and to demonstrate leadership in the wider New Zealand innovation system.

Our success so far: We have given effect to the VM policy through:

- partnerships with iwi, hapū and whānau;
- building relationships and fostering co-innovation;
- being innovative and working respectfully towards common goals;
- building transdisciplinary research projects that blend mātauranga Māori and scientific method;
- building Māori capability and capacity;
- resourcing of VM-specific research;
- building capacity in non-Māori researchers and end users to build trust and confidence in their own ability to engage and give effect to the VM policy.

²New Zealand's Biological Heritage National Science Challenge Ngā Koiora Tuku Iho Future Strategy 2019-2024 p.21

The next steps:

We will continue to give effect to the Vision Mātauranga Policy and build on our success through:

- **confirming our commitment to partnership**, and giving effect to te ao Māori perspectives, at all levels of the Challenge;
- seeking opportunities for the right mix of skills – including Māori – through succession planning for **governance roles** in Tranche 2;
- creating opportunities for **emerging Māori leaders** and co-leadership models;
- further building **capacity amongst non-Māori researchers and end users** to enable them to work confidently in partnership with tangata whenua;
- investment in, and promotion of, **Kaupapa Māori** and **Māori-led research**.

We will ensure that Māori researchers and/or iwi, hapū and whānau are **embedded** in Challenge investments, with our investments focussing on the delivery of the Vision Mātauranga policy, with priority to research that is at least 3 on the scale (defined as projects where mātauranga Māori is collected and incorporated, Māori are involved in the design and implementation of the research, and where the work is contributing to iwi, hapū and whānau aspirations and outcomes; more information on the VM scale is on our website). This will mean we:

- ensure that teams developing research actively seek opportunities for **meaningful co-design** of Strategic Outcomes with Māori;
- take a **proactive role** in our partnerships with Māori researchers and communities and invest Challenge resources in building relationships early to ensure trust and respect are an integral part of the way we work;
- ensure **knowledge exchange with Indigenous researchers and communities worldwide**, with opportunities to contribute to key relevant international processes (e.g. IPBES, the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services);
- **partner** with other entities seeking to build Māori capability and capacity across the New Zealand science system (e.g. the Ngā Pae o te Māramatanga and Te Pūnaha Matatini research CoREs) through (1) supporting existing Māori researchers to build better CVs through leadership opportunities and publications; (2) providing emerging Māori researchers with mentoring and professional development opportunities (e.g. through scholarships); and (3) providing opportunities for students through summer scholarships for undergraduates, and resourcing for postgraduate study;
- **enrich** our research and innovation investments by recognising and incorporating the inherent value of mātauranga Māori and other knowledge systems;
- **equitably and fairly resource** Māori capability and knowledge within our research investment portfolio;
- **lead by example** and show how increased diversity and inclusivity in science can generate better outcomes for Aotearoa.