



## VISION MĀTAURANGA STRATEGY

### Karakia Tīmatanga

*Whakataka te hau ki te uru,  
whakataka te hau ki te tonga.  
Kia mākinakina ki uta,  
kia mātaratara ki tai.  
E hī ake ana te atākura,  
he tio, he huka, he hauhunga.  
Haumi ē! Hui ē! Tāiki ē.*

*Get ready for the westerly  
and be prepared for the southerly.  
It will be icy cold inland  
and icy cold on the shore.  
The scarlet dawn rises  
over ice, snow, and frost.  
Let us face it together.*

### Te Whakatuwheratanga / Introduction

The purpose of the Antarctic Science Platform (ASP) is to conduct excellent science to understand Antarctica's impact on the global earth system, and how this might change in a +2°C (Paris agreement) world. While our focus lies on global consequences, the ASP collaborates with existing national research efforts to provide research outputs that support these partners to assess impacts on New Zealand, its people, environment and economy.

New Zealand is a recognised leader in Antarctic science and governance. The ASP provides an important opportunity to develop a targeted strategy to grow strong partnerships with Iwi to increase Māori representation and integrate Te Ao Māori in this important and high performing area of research and international relationships.

This document outlines the ASP's approach for greater incorporation of Te Ao Māori in Antarctic science. We will commence with the establishment of a Kāhui Māori Advisory Group to support the implementation of VM priorities and a workplan, identify key partnerships with Iwi, and to define and monitor success indicators.

### Tirohanga / Vision

***New Zealand's Antarctic science excellence is enhanced through Mātauranga Māori, and Māori benefit from participation in, and engagement with, Platform initiatives.***



**Pou tarāwaho / Framework**

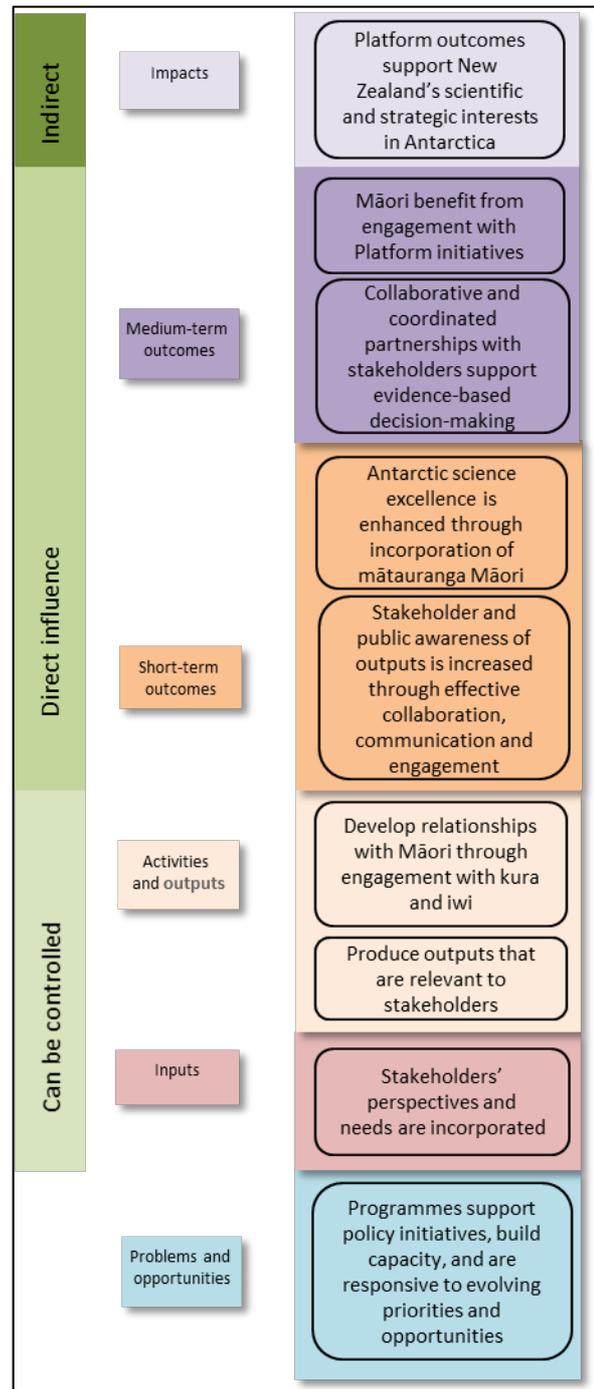
New Zealand takes a role as kaitiaki (guardian) of the Ross Sea region. The ASP is guided by the principles of kaitiakitanga (environmental stewardship) and manaakitanga (respect and care for others).

To date New Zealand’s Antarctic science research and on ice activities, while based on principles of environmental stewardship and intergenerational welfare, have had little incorporation of Te Ao Māori.

The New Zealand RS&T Vision Matāuranga (VM) framework seeks to unlock the potential of Māori knowledge, resources and people to assist New Zealanders to create a better future. The research priorities of the ASP align most closely with the VM theme of Taiao (environment), where there is alignment in concerns over climate change and state of the environment.

Within New Zealand, incorporation of Mātauranga Māori (Māori knowledge) and Te Ao Māori is increasingly recognised as an opportunity to strengthen New Zealand’s science excellence and impact. Antarctic science has yet to benefit from this unique strength, and Māori have received little direct benefit from Antarctic research.

**VM is an integral part of the Antarctic Science Platform’s Outcome Logic Framework (see key items in Figure 1).**



**Figure: 1: The VM pathway within the Antarctic Science Platform Outcome Logic Framework (extracted relevant items).**



## Whāinga / Goals

Within the ASP mandate: “*To understand Antarctica’s impact on the global earth system, and how this might change in a +2°C (Paris agreement) world and its impact*”, Vision Mātauranga objectives are to:

- foster a shared understanding of research priorities and limitations;
- build capacity, capability and diversity;
- improve science excellence through mātauranga Māori; and mātauranga Māori through science excellence
- increase Māori participation in Antarctic research.

It should be noted that Research Platforms, such the ASP, have a research and capability development mandate while National Science Challenges also carry a strong public engagement mandate. For this reason, out of scope of the ASP’s VM strategy is direct engagement with New Zealanders beyond efforts by the Antarctica New Zealand communications team and those supported by participating organisations.

## Tukanga / Process

### Uiuinga / Consultation

*Poipoia te kakano kia puawai* - Nurture the seed and it will blossom

The ASP acknowledges that we are at the beginning of our VM journey and that this VM strategy is still early in its development. As such we have taken advice from those further along this pathway. This document has been informed through consultation with closely aligned research programmes and organisations (see next sections), as well as Māori advisors.

The ASP VM Strategy is aligned with Antarctica New Zealand Māori Strategic Framework, to leverage common interests, key contacts, and associated goals. A list of relevant consultation is listed in Appendix 1 at the end of this document.

### Te Honohono / Partnerships

The New Zealand Antarctic science community is an acknowledged leader in Antarctic and Southern Ocean scholarship, technology development and field deployment. Māori participation in this high performing field has been traditionally low. The ASP offers an important opportunity to build lasting relationships between the Antarctic science system and Māori to grow opportunities for knowledge transfer, as well as Iwi/Hapū led research and capability development.

The ASP mandate is to focus on understanding and synthesising global impacts, and translating these to impacts on New Zealand in collaboration with existing research efforts. We will take a targeted approach to establishing partnerships between the ASP and Iwi.

Engagement with Māori on climate change impacts for New Zealand’s future will be facilitated through our collaboration partners, including the Deep South National Science Challenge (NSC), and the MBIE-funded SeaRise and RossRAMP programmes. Additional important partners include Antarctica New Zealand, Sustainable Seas NSC, Science for Technological Innovation (SfTI) NSC, and existing linkages of participating research organisations (i.e. crown research institutes and universities).



### **Kāhui Māori / Māori Advisory Group**

The ASP will seek the advice of a Māori advisory group. The Deep South NSC Kāhui Māori consists of nationally recognised members that can provide external perspectives and strategic insights into the areas of science that are relevant to Iwi/Hapū/Whānau and overall Māori interests.

We propose a joint Deep South NSC / ASP Kāhui Māori to allow the Antarctic Science Community to build on this strong, existing relationship. Furthermore, a joint Kāhui Māori will help us to support an effective transfer of knowledge from the ASP to the Deep South NSC. The Kāhui Māori will provide strategic counsel to the ASP Leadership Team and the Kāhui Māori Chair will be invited to attend Steering Group meetings.

### **Takohanga / Responsibilities**

The Antarctic Science Platform is guided by environmental stewardship and care for people through principles of kaitiakitanga and manaakitanga, respectively.

The Antarctic Science Platform Leadership Team will:

- Develop trusted relationships with leaders in the Māori community
- Engage the Kāhui Māori to peer-review the Vision Mātauranga components of projects and suggest further opportunities where applicable
- Support project teams to encourage Māori researchers to become involved in Antarctic Research
- Encourage Māori representation at all levels across the Platform – from research teams through to governance
- Encourage researchers to develop their awareness and understanding of tikanga and mātauranga Māori
- Build on existing relationships established through other research programmes
- Work with Antarctica New Zealand to communicate the success of Vision Mātauranga initiatives across Aotearoa.

Platform research teams will:

- Engage existing institutional expertise to apply the knowledge envisaged by Vision Mātauranga in a meaningful manner
- Identify relevant Iwi/Māori partnerships
- Develop early and ongoing engagement with Māori as key partners
- Facilitate opportunities to partner with Māori researchers
- Encourage Māori early-career researchers to become involved in Antarctic research
- Develop a plan where mātauranga Māori enhances our work and builds capacity and capability in relevant research areas



## **Ngā Tohu / Indicators**

The ASP will know it is making positive progress when we are:

- Developing trusted relationships with appropriate leaders in the Māori community
- Coordinating Māori engagement efforts with our partnering institutions
- Supporting project teams to encourage Māori researchers to become involved in Antarctic Research
- Partnering with Māori researchers
- Growing Māori capability in science, including funding of Māori scholarships and research internships
- Increasing Māori representation across the Platform, including science, administration and governance
- Encouraging researchers to develop their awareness and understanding of tikanga and mātauranga Māori
- Communicating the success of Vision Mātauranga initiatives in Antarctic science, as it relates to Aotearoa

## **Arotake me Te Aroturuki / Review and Monitoring**

Accountability for implementation and delivery of this engagement strategy lies with the ASP Leadership Team, with support from the Kāhui Māori.

The ASP will solicit feedback on our engagement process, and review the efficacy of the chosen mechanisms on at least an annual basis.

## **Karakia Mutunga**

*Kua hikitia te kaupapa  
Kua takoto te wero  
Me hoe tahi i runga i te whakaaro kotahi  
Tiaki tō tāua oranga  
Kia kaha ai mo te tuku taonga  
Kia tutuki ngā hiahia  
Ka Hikitia  
Tihei mauriora!  
Ki te whai ao!  
Ki te whai oranga e!  
Mauriora!*

*We have come to an awareness  
The challenge lies before us  
Let us work together as one  
Stay well, so that we have the ability to  
manage success  
Behold, here is the pathway  
to enlightenment and well-being  
What a positive feeling!*



## Appendix One: Uiuinga (consultation)

The following list records engagement to inform the development of Antarctica New Zealand's Māori Strategic Framework and ASP Vision Mātauranga Strategy.

- Michele Frey, OPUS, January 2018
- Kura Paul-Burke, NIWA, February 2018
- Te Maire Tau, University of Canterbury, April 2018
- Marino Tahī, NIWA, May 2018
- Jonelle Riiki-Waaka, Core Education, August 2018
- Arielle Monk, Fayne Robinson, Ngai Tahu, October 2018
- Marino Tahī, NIWA, travelled to Antarctica October 2018. Additional meeting at Antarctica New Zealand in November 2018
- Dan Hikuroa UoA, Rebecca Priestley VUW, February 2019
- Sandy Morrison, University of Waikato, March 2019
- Tania Gerrard, GNS Science, March 2019
- Matt Pinkerton, NIWA, March 2019
- Craig Ellison, ASP, March 2019
- Sandy Morrison, University of Waikato; Garth Harmsworth, Manaaki Whenua; Aimee Kaio, Ngai Tahu Tribal Economies, May 2019
- Chris Brankin, Ngai Tahu, May 2019
- Katharina Ruckstuhl, Willy-John Martin, SFTI; Craig Ellison, March 2019
- Andre Konia, NIWA; Rata Pryor-Rodgers, Tasman Gillies, Ngai Tahu, April 2019
- Antarctic Science Conference June 2019: Sandy Morrison & Andre Konia
- Justine Daw, GNS, June 2019
- Marino Tahī, NIWA, June 2019
- Andre Konia, NIWA, July 2019
- Don Mouat, Ngai Tahu, August 2019
- Mike Williams, Deep South NSC, August 2019
- Charlton Clark, AAD, Indigenous Community Engagement, August 2019
- Nigel Scott, Tasman Gillies, Ngai Tahu, August 2019



## Appendix Two: New Zealand's Interests in Antarctica

(source: <https://www.mfat.govt.nz/en/environment/antarctica/ourcommitment/>)

### New Zealand's Statement of Commitment to Antarctica and the Southern Ocean

**Antarctica has intrinsic value as a natural reserve, devoted to peace and science. New Zealand, guided by *manaakitanga*, is committed to preserving and protecting Antarctica and the Southern Ocean for present and future generations.**

- New Zealand's environment is connected to Antarctica and the Southern Ocean. We prioritise the environmental protection of Antarctica and the Southern Ocean; we value healthy and productive ecosystems; and we are committed to protecting biodiversity. We will:
  - Follow environmental best practice in our activities in Antarctica and the Southern Ocean.
  - Advocate for the establishment, protection and management of representative special areas in Antarctica and the Southern Ocean.
  - Take precautionary and ecosystem approaches to the conservation and sustainable management of living marine resources in the Southern Ocean, particularly in the Ross Sea, supporting strong environmental standards and sustainable economic benefits, and contributing to scientific understanding.
  - Be an international leader in efforts to eliminate illegal, unreported and unregulated fishing in the Southern Ocean.
- Antarctica is an essential part of understanding global environmental systems, and is uniquely valuable for scientific research. We are committed to promoting and collaborating on scientific research of the highest standards. We will:
  - Support, lead and share scientific research that increases understanding of the interaction between global systems and Antarctica, and advances New Zealand's climate change policies and capability to respond to change.
  - Be a leader in research in the Ross Sea region Marine Protected Area.
  - Ensure Scott Base is an effective and sustainable facility, providing support for the safe conduct of excellent scientific research.
- Antarctica is part of New Zealand's heritage, and future. As the gateway to the Ross Sea region we uphold New Zealand's role in Antarctic exploration, scientific discovery and collaboration. We will:
  - Celebrate New Zealand's connection with Antarctica and the Southern Ocean; honouring our linkages through scientific research, environmental protection, conservation, heritage and logistical support.
  - Strengthen Christchurch's position as the international gateway to the Ross Sea region, ensuring we provide high-quality services to, and collaboration with, other nations.
  - Maintain air, maritime and terrestrial assets capable of operating in Antarctica and the Southern Ocean.
- New Zealand values a peaceful, secure and safe region. We support the Antarctic Treaty principles and strive to maintain a peaceful, nuclear free and protected Antarctica. We will:
  - Actively engage with our Antarctic partners to sustain a strong and effective governance framework under the Antarctic Treaty system.
  - Develop and implement international rules to ensure the comprehensive protection of the Antarctic, ensuring its value as a place for peace and scientific research is prioritised, the impacts of human activity are limited, and safety is promoted.