

Te Ara Paerangi Future Pathways



Overview

- The multi-year Te Ara Paerangi Future Pathways programme aims to build a modern, future-focused research, science and innovation system that equips New Zealand to meet complex challenges and make the most of the opportunities ahead.
- In December 2022, the Minister of Research, Science and Innovation launched the Te Ara Paerangi – Future Pathways White Paper.
- The White Paper builds on what we heard from the sector through consultation on the Green Paper which included over 900 submissions and workshops attended by over 1,000 people.
- It presents a high-level vision for New Zealand's public Research Science and Innovation (RSI) system, including key policy directions and actions, and provides a roadmap to implement the reform programme.
- The White Paper is intended to be an enduring policy document that signals the beginning of the multi-year reform programme.

Te Ara Paerangi

Future Pathways White Paper 2022

Overview



Te Käwanatanga o Aotearo

Te Ara Paerangi

Future Pathways White Paper 2022



- Proliferation of multiple and competing governance structures, strategies and priorities
- Institutions with limited capacity to reorient to new industry and priorities
- System responsiveness to Māori is weak and models of engagement are poor
- Lack of viable career pathways for talented people

Current state

Key shifts

- Enable greater impact
- Establish National Research Priorities
- Embed Te Tiriti
- Grow and revise funding approaches
- Redesign institutions

- RSI system makes a meaningful impact on the wellbeing of New Zealanders
- The system delivers on Research Priorities of national significance
- The system gives full expression to Te Tiriti and is responsive to the needs and values of Māori
- The system attracts and retains a talented and diverse workforce
- Institutions are resilient and adaptable in a changing environment

Reform Vision and Objectives

An RSI system that supports wellbeing for all current and future New Zealanders; a high-wage low-emissions economy; and a thriving, protected environment through excellent and impactful research



An RSI system that makes an impact of national and global significance and continuously grows the adaptive capacity of society



Te Uara i Ō Mātou TāngataValuing Our People

Manaakitanga

An RSI system that attracts, retains and develops an excellent and diverse workforce at all career stages



Te Hanga i te Kakama o te PūnahaBuilding System Agility

Whanaungatanga

A sustainable, resilient and cohesive system that adapts to new challenges and opportunities



Te Tāmau i Te Tiriti

Embedding Te Tiriti

Tikanga

An RSI system that embeds Te Tiriti o Waitangi in its design

1. Creating New Futures

- **1.1** Establish National Research Priorities
- **1.2** Accelerate innovation, diversify and scale up impact
- 1.3 Grow global connectivity

- Difficulty aligning a critical mass of activity to succeed
- Lack of open and fluid connectivity across the system, domestically and internationally
- Settings that disincentivise knowledge mobilisation
- Low R&D investment rates alongside weak adoption and diffusion of technologies

Current state



Strategic shift

- Establish participatory Priority setting process
- Significantly increase public investment in RSI
- Incentivise knowledge mobilisation & connectivity
- Utilise knowledge assets

- Clear and consistent statement of priorities for the RSI system
- Open system of knowledge mobilisation driving innovation and commercialisation and leveraging increasing digitalisation
- Significant and deliberate long-term investment focused in more diverse areas of high potential
- Individuals, programmes and institutions readily collaborate, also globally on NZ-inc basis

2. Embedding Te Tiriti

- **2.1** Advancing Māori aspirations in the RSI system
- **2.2** Investing in mātauranga Māori, Māori knowledge
- 2.3 Crown to lead by example

- Insufficient expression of Te Tiriti in RSI policy settings
- Low impact on and responsiveness to Māori needs
- Low representation and funding of Māori researchers
- Exploitation and lack of recognition of mātauranga Māori
- Māori perspectives and aspirations not reflected in priorities and decisions

Current state



Strategic shift

- Increase representation of and support for Māori
- Elevate mātauranga Māori
- Increase funding for mātauranga Māori
- Increase capability of Māori and of non-Māori to engage with mātauranga Māori
- RSI priorities reflect Māori priorities

- An RSI system that reflects and responds to the needs of Māori communities
- Recognition and elevation of mātauranga Māori and Māori knowledge
- Increased representation of Māori in the RSI system
- Greater impact on Māori wellbeing

3. Valuing Our People

- **3.1** Attract, develop and retain talented people
- 3.2 Supporting diversity at all levels
- **3.3** Empowering Pacific Peoples

- Constrained opportunities and precarious career pathways
- Poor diversity and equity outcomes
- Barriers to workforce mobility and connectivity
- Some disconnect between skills trained and those needed in wider system

Current state



Strategic shift

- Increased peoplefocused funding
- Revised funding and institutional settings
- Diversity and equity initiatives to improve under-representation
- Support for expanded career pathways

- Workforce better reflects diversity of New Zealand
- Recognition and support for multiple career pathways
- Improved career mobility across organisations
- New Zealand attracts and retains talented RSI workers for its future needs

4. Building System Agility

- **4.1** Clarify roles and responsibilities
- **4.2** Co-ordinating investment in future-oriented infrastructure
- **4.3** Designing resilient and adaptable public research organisations
- **4.4** Funding mechanisms that support system goals

- Lack of clarity about roles across the RSI system, and accountability about value
- Institutions with limited capability to respond to emergent priorities outside their sector focus
- Financial drivers incentivise short-term planning
- Counterproductive wasteful competition

Current state



Strategic shift

- Devolve governance and funding where appropriate
- Agile and resilient institutions capable of shifting focus over time
- Strategically aligned infrastructure investment
- Changed funding approaches

- Governance and funding decisions are made where they are most effective
- Institutional design and funding support responsiveness to government, sector and community needs
- Co-ordinated planning and funding of national infrastructure better reflects user requirements
- Long-term funding secures stable delivery of public good science services and infrastructure
- Efficient and effective funding approaches enhance value

Implementation

Phase 1: Workforce and people support (2023)

- Introduce RSI Workforce Policy Package
- Release RSI Te Tiriti Statement

Phase 2: National Research Priorities (2023–2024)

- Establish new National Research Priorities
- Establish funding mechanisms to invest in Priorities

Phase 3: Institutional change (from 2024, where required)

 Undertake institutional reform where required to achieve the vision of Te Ara Paerangi – Future Pathways

Increase R&D expenditure to 2% of GDP (2023–2030)

What has been happening since the White Paper launch?

• We will begin with addressing immediate matters first, such as workforce support and embedding Te Tiriti, then setting the strategic direction of the RSI system through National Research Priorities.

Workforce

- We are currently developing policy actions in this space, these include:
 - expanding and refreshing research fellowships (including for Māori and Pacific researchers)
 - o applied training schemes, specifically applied doctorates
- We expect to launch the expanded research fellowships later this year and the applied doctorates scheme in 2024.
- Ngā Puanga Pūtaiao Fellowships & Te Ara Pōtiki Internships have been launched and will address an immediate need to grow Māori and Pacific
 contribution in the STEM workforce and the innovation system, they are set to open in April and July 2023.

Embedding Te Tiriti

• The first policy action in this objective is to have the Crown lead by example as a partner to Te Tiriti o Waitangi, including through an RSI Te Tiriti o Waitangi statement. We have been undertaking targeted hui to help us develop a Tiriti statement that will set out how government intends to support and embed Te Tiriti in a future RSI system. The statement will do this by outlining our obligations, expectations and aspirations under Te Tiriti. We expect to release the statement by the middle of the year.

National Research Priorities

• We are in the final stages of designing a process for setting our NRPs. This focuses on how to determine our NRP not what they should be. We expect to go to start to determine our NRPs in mid-2023

How to stay involved

You can stay connected with Te Ara Paerangi-Future pathways via the MBIE website where you can join our email list to receive updates and subscribe to our newsletter to learn more and get involved.

You can contact us at:

www.mbie.govt.nz/te-ara-Paerangi-future-pathways

futurepathways@mbie.govt.nz

@MBIEsci - MBIE Science on Twitter

