



Building Better Homes Towns and Cities National Science Challenge

Moving to Phase II

*Ko Te Manu E Kai Ana I Te Miro Nona Te Ngahere
Ko Te Manu E Kai Ana I Te Mātauranga Nona Te Ao*

*The Bird Who Feeds On The Miro Partakes Of The Forest
The Bird Who Feeds On Knowledge Partakes Of The World*

National
SCIENCE
Challenges

**BUILDING BETTER
HOMES, TOWNS
AND CITIES**

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Ko ngā wā kāinga hei
whakamāhorahora



Overview

- 🏠 National Science Challenges
- 🏠 Building Better Homes Towns and Cities: Ko ngā wā kaingā hei whakamahorahora National Science Challenge –
 - 🏠 Phase I
 - 🏠 Phase II
 - 🏠 Regional Research – phase II
- 🏠 Discussion

National Science Challenges

- 🏠 provide **devolved** funding to New Zealand researchers to tackle some of the biggest science-based issues and opportunities facing New Zealand.
- 🏠 designed to take a **more strategic approach** to our science investment by targeting a series of goals which, if achieved, will have a major and enduring benefit for New Zealand.
- 🏠 provide an **opportunity to align and focus** New Zealand's research on **large and complex issues** by drawing scientists together from different institutions and across disciplines to achieve a common goal through collaboration.

National Science Challenges

HIGH-VALUE NUTRITION Ko Ngā Kai Whai Painga
National **SCIENCE** Challenges

RESILIENCE TO NATURE'S CHALLENGES Kia manawaroa – Ngā Ākina o Te Ao Tūroa
National **SCIENCE** Challenges

NEW ZEALAND'S BIOLOGICAL HERITAGE Ngā Kōiora Tuku Iho
National **SCIENCE** Challenges

OUR LAND AND WATER Toitū te Whenua, Toiora te Wai
National **SCIENCE** Challenges

National **SCIENCE** Challenges **SUSTAINABLE SEAS**
Ko ngā moana whakauka

National **SCIENCE** Challenges **THE DEEP SOUTH**
Te Kōmata o Te Tonga

National **SCIENCE** Challenges
BUILDING BETTER HOMES, TOWNS AND CITIES
Ko Ngā wā Kainga hei whakamāhorahora

A BETTER START E Tipu e Rea
National **SCIENCE** Challenges

HEALTHIER LIVES He Oranga Hauora
National **SCIENCE** Challenges

National **SCIENCE** Challenges **AGEING WELL**
Kia eke kairangi ki te taikaumātutanga

National **SCIENCE** Challenges **SCIENCE FOR TECHNOLOGICAL INNOVATION**
Kia kotahi mai – Te Ao Pūtaiao me Te Ao Hangarau



Operating Principles

- 🏠 Challenge is based on a bi-cultural partnership
- 🏠 Research programme is based on principles of;
 - 🏠 Co-creation
 - 🏠 Collaboration
 - 🏠 Multi-disciplinary teams
- 🏠 Additionality
- 🏠 Effective community partnerships

OVERVIEW OF STRATEGIC RESEARCH PROGRAMMES

PROGRAMMES		Understanding and Re-tooling the Architecture of Decision-making	Kāinga Tahī Kāinga Rua (KTKR)	Transforming the Building Industry	Next Generation Information for Better Outcomes	Supporting Success in Regional Settlements (SSRS)	Shaping Places: Future Neighbourhoods
BUILDING BETTER HOMES, TOWNS AND CITIES Ko ngā wā kāinga hei whakamāhorahora	RESEARCH PROJECTS	Novel Wastewater Processing	Supporting Māori Housing Aspirations and Solutions	Consenting Automation	Auckland's housing supply challenge	SSRS: The Oamaru Regeneration Initiative	Co-designing with Children
		Urban Narrative	Te Manaaki o te Marae: The role of marae in the Tāmaki Māori housing crisis		Revitalising the production of affordable homes to provide for successful, engaged and healthy lives	SSRS: Connecting across Scales for Success	Understanding Place
			Toitū te Kāinga, Toitū te Ora, Toitū Te Tangata		Transdisciplinary Resilience Assessment Multi-scale methods	Harnessing the Hinterland	Autonomous vehicles and Urban Environments
			He Kāinga Pai Rawa: A Really Good Home		Crowd-sourced & urban sensor data insights for better cities, towns and homes		Delivering Urban Wellbeing
							Activating water Sensitive Urban Design for Healthy Resilient Communities
							Give us Space

CHALLENGE HOST:



Phase II focuses on two fundamentals needed to position for NZ/Aotearoa for a better future

Homes and spaces for generations | Kāinga Tahī Kāinga Rua

How can our homes can work for the people that currently use them and provide for future generations?

How we deliver quality housing and neighbourhoods for all New Zealanders?

Thriving regions and communities | He Pā Harakeke

How can we support regions and communities to adapt and thrive?

How can regions deliver functional, hospitable, and protective homes, kāinga and neighbourhoods that allow people to participate in their communities, be productive and to maximise their well-being?

How can we integrate housing and social, economic, cultural and environmental infrastructure that supports people and their communities?



Discussion

Having heard about phase I findings in this stream:

- 🏠 What are the big, intractable issues facing thriving regions in New Zealand?
- 🏠 What are key research areas that the Thriving Regions research area in phase II should focus on?
- 🏠 What should Thriving Regions phase II avoid?
- 🏠 How might phase II “Thriving Regions” fit within the context of other national and international regional research?