

Kia Manawaroa – Ngā Ākina o Te Ao Turoa

Phase II 2019 -2024

National
SCIENCE
Challenges



1

National Science Challenges – Key principles

- **Mission-driven**
- **Māori as key partners** and mātauranga integration
- **Science excellence** – innovative, internationally relevant, has impact
- **Collaboration** – bringing the best research team together
- **Stakeholders and end users** engaged from the outset

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The Resilience Challenge Mission

We work with **stakeholders and end-users** to generate **new co-created research** that **communities, organisations and agencies** can use to improve New Zealand's **natural hazard resilience**

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Phase 1 Science Highlights

- New **resilience indicators** developed with iwi and hapū
- Science-informed Hawke's Bay **coastal adaptation strategy**
- Development of a **resilience guide** for the **national electricity distribution network**
- Case studies with **winegrowers** and **sheep & beef farmers** in Kaikoura/North Canterbury to develop **rural resilience**
- A **Wildfire Hazard Index**, to allow wildfire hazards to be compared with those from other perils.

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Phase 2 Research Programme 2019-2024



RESILIENCE
TO NATURE'S
CHALLENGES

Kia mānawhara
- Nga Akina o
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Phase 2 – Two major themes



The **Multi-hazard Risk Model** comprises exciting **new research** to advance our understanding of **natural hazard processes** (such as earthquakes / tsunami, volcanoes, coastal hazards, and high-impact weather and wildfires).

The **Resilience in Practice Model** comprises **social, economic and cultural research** to develop **tools and methods** to ensure new resilience knowledge becomes part of **daily decision making** in New Zealand.



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Ten Research Programmes



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Kia mānawhara
- Māi Ahina a
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Phase 2: The numbers

- **120+** scientists
- **68** PhD students
- **37** projects
- **13** partner organisations



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Phase 2 opportunities

- **Strengthened** and integrated mātauranga and kaupapa Māori
- **Integration** and coordination across themes
- **Partnering** for impact and implementation



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resiliencechallenge.nz

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