

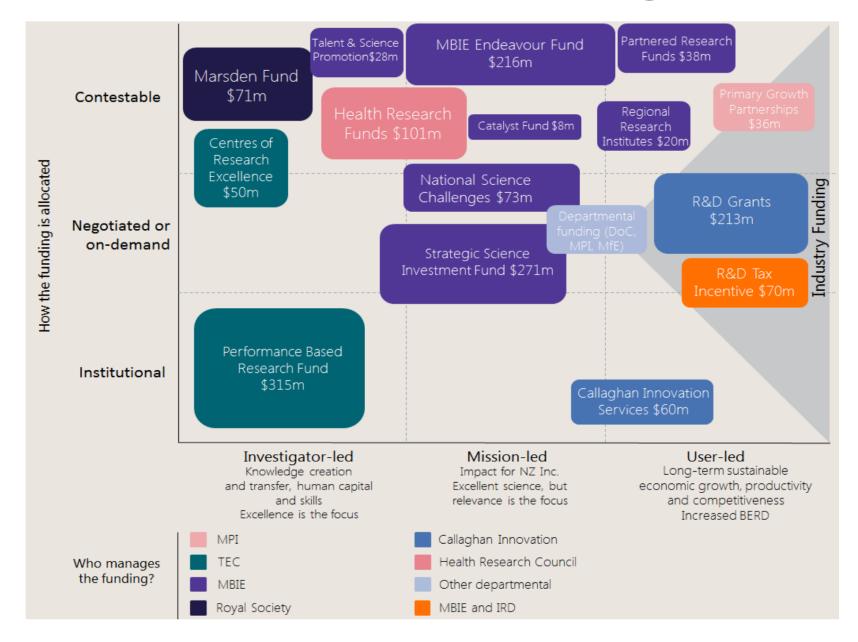
What's new in resilience research?

a view across the Resilience Challenge

Richard Smith Director



The Aotearoa Research Funding Landscape...



The Disaster Resilience Research Landscape...











Kia manawaroa – Ngā Ākina o Te Ao Tūroa

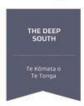












TE TAI PARI O AOTEAROA













Endeavour Fund 2020

Reducing flood inundation hazard and risk across Aotearoa

Endeavour Fund 2019

Whakahura: Extreme Events and the Emergence of Climate Change research programme Endeavour Fund 2020

RCET Rapid Characterisation of Earthquake and Tsunami





Resilience Challenge

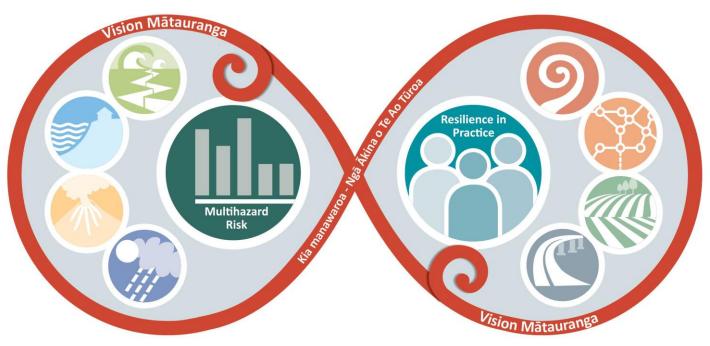
Funding until 2024

330+ researchers

127 students

10 Post-docs

10 programmes; 37 projects





















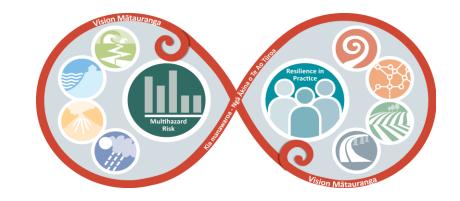








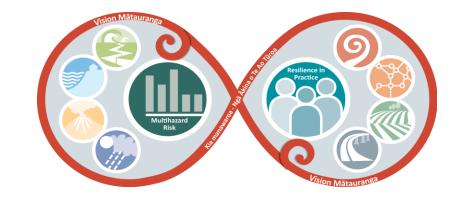
Some projects of Interest...





- Earthquake cycle simulation for New Zealand faults
- National probabilistic tsunami and landslide models
- Coincident and cascading hazard models
- Social and economic impacts estimation
- Coastal change and inundation models
- High-impact weather scenarios for Auckland
- Volcanic forecasting and impact tools

Some projects of Interest...





- Innovation spaces for testing resilience policy choices
- Adaptation planning
- Modelling resilience building strategies
- Incorporating m\u00e4tauranga m\u00e4ori for hazard risk assessment and resilience planning
- Effective risk communication and the role of digital technology
- Serious games for learning and engagement
- Impacts-based warnings and forecasting
- Social vulnerability and livelihood resilience

Future resilience research landscape

Major reform of science system in next 3-5 years...

- Increasing technology focus?
- Elevated and embedded Mātauranga Māori
- Integrating local knowledge into national frameworks
- Further progress on multi-and transdisciplinary approaches





The National Science Challenge model

- Collaboration
- Multi- and trans-disciplinary work
- Elevating Mātauranga Māori
- Te Tiriti-led science system
- Science into policy and practice
- Capability building

