



QuakeCoRE

NZ Centre for Earthquake Resilience

Te Hiranga Rū

Overview of QuakeCoRE – Infrastructure Research Day 2022

Brendon Bradley, QuakeCoRE Director

22 November 2022



Vision

An earthquake-resilient Aotearoa New Zealand where thriving communities have the capacity to recover rapidly after major earthquakes through mitigation and pre-disaster preparation.

Research Programme

Technology Megatrend Capability Areas

coordination mechanism

- TM1** Computational Science
- TM2** Machine Learning
- TM3** Sensing and Monitoring
- TM4** Materials Science and Manufacturing

Regional Network Areas

coordination mechanism

- RN1** Alpine Fault
South Island-wide
- RN2** Wellington
- RN3** Hikurangi subduction zone
North Island-wide
- RN4** Auckland
- RN5** South Pacific

Disciplinary Themes

- DT1** Integrated Seismic Geohazards
- DT2** Whole-of-Building
Seismic Performance
- DT3** Law, Planning, Economics
- DT4** Cultural and Social Factors
Shaping Resilience
- DT5** Mātauranga Māori and
Earthquake Resilience

Inter-disciplinary Programmes

- IP1** Functional Recovery with
Repairable Multi-storey Buildings
- IP2** Thriving Residential Communities
- IP3** A Resilient Aotearoa New Zealand
Transport System
- IP4** Harnessing Disruptive Technologies
for Earthquake Resilience

Te Hiranga Rū QuakeCoRE: NZ Centre for Earthquake Resilience



Inter-disciplinary Programmes



Thank you