

Te Hiranga Rū QuakeCoRE Aotearoa New Zealand Centre for Earthquake Resilience

# QuakeCoRE Rebid: QC2 **Draft Research Structure**

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# QC2: Research Structure



## **1. Disciplinary Focus Areas**

'Narrow and deep' research areas that span the earthquake resilience pipeline and focus on transformative research questions that Aotearoa New Zealand has shown global leadership in.

## 2. Grand Challenges

Multidisciplinary research areas that leverage Aotearoa New Zealand's unique situation and challenges.

## 3. Coordination Mechanisms

There will be two coordination mechanisms:

- **Regional Networks:** Provide contextual relevance and rapid embedding of research solutions into tangible advances in earthquake resilience.
- **Technology Megatrends:** Development of human capability necessary for early adoption and leverage of global megatrends to accelerate earthquake resilience.

## **Disciplinary Focus Areas**





'Narrow and deep' research areas that span the earthquake resilience pipeline and focus on transformative research questions that Aotearoa New Zealand has shown global leadership in.

## **Grand** Challenges





Multidisciplinary research areas that leverage Aotearoa New Zealand's unique situation and challenges.

## **Coordination Areas**



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**Regional Networks: P**rovide contextual relevance and rapid embedding of research solution into tangible advances in earthquake resilience.

**Technology Megatrends:** Development of human capability necessary for early adoption and leverage of global megatrends to accelerate earthquake resilience.



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#### **Disciplinary Focus Areas**

#### 1: Mātauranga Māori

- 2: Cultural & socio-economic aspects
- **3: Economics and policy effects**
- 4: Critical Structural engineering factors
- 5: Integrated seismic demands & consequent geohazards

#### Grand Challenges

- 1: Resilient communities during & after earthquakes
- 2: Repairable buildings serving resilient communities
- 3: Building seismic resilience into New Zealand's transportation & logistics system
- 4: Transforming the resilience of New Zealand's infrastructure through disruptive technologies

#### **Coordination Areas**

1: Regional networks

#### **2: Technology Megatrends**



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## **Feedback welcomed**

# We welcome your feedback, ideas and contribution to develop our research structure and other components of the rebid.

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