

Integrated Seismic Geohazards

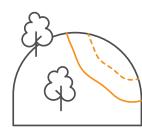




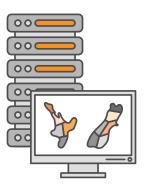
High-resolution ground motion models



Novel liquefaction assessments



Slope instability and fault rupture models



Predictive modelling of geohazards



Well-informed risk mitigation

Advancing understanding of earthquakeinduced geohazards using recent observations, and integrated modelling of multiple hazards to better predict impacts from earthquakes thereby enabling improved mitigation actions.

Data from recent Aotearoa New Zealand earthquakes provides internationally unique opportunities to advance the understanding and modelling of geohazards. A case study for the Wellington region integrates the different geohazard research areas to provide insights into likely locations of future earthquake impacts.

Research Areas

- Ground motion modelling
- Liquefaction impacts on land and infrastructure
- Fault displacement and coseismic landslide hazards
- Geohazard integration

Programme Area Leaders:

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