QuakeCoRE 2

DT1: Integrated Seismic Geohazards

Principal research question:

What are the salient physics and mechanics that govern seismic geohazards and how can we advance prediction accuracy and precision through integrated observational, empirical and physics-based datasets, methods, and associated tools?
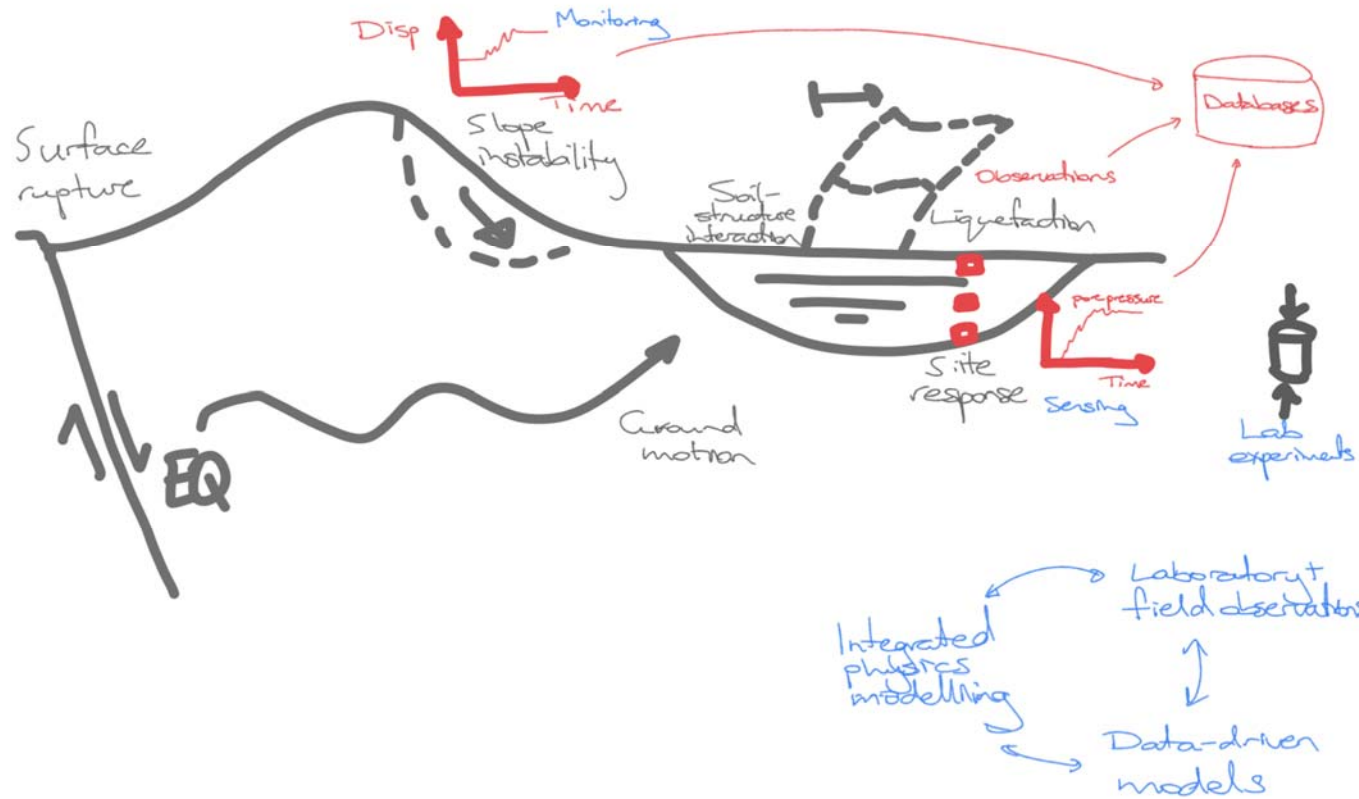
Traditional disciplines:
- Engineering seismology
- Geotechnical engineering
- Engineering geology

Integration/synthesis

Tools and methods:
- Monitoring and sensing
- Application of machine learning
- Physics-based models

Domain Diagram

Monthly meetings

Odd months (July, September, …etc.)
Three separate meetings for three strands:
- ground motion
- liquefaction
- fault rupture and slope stability

Even months (August, October, …etc.)
One joint meeting where we look to develop the workplan on "integrated geohazards" (with proposed case study in the Wellington region)

This set-up will allow:
- low-level disciplinary actions to occur
- multi-disciplinary interactions to build-up

Aims of monthly meetings

- QuakeCoRE is an **open collaboration** (community of researchers)
- **Focus on openness:** sharing results from in-progress research (stage where it is most valuable to get inputs) and allow greatest collaboration and coordination
- **Funding source agnostic**: research sponsors do not matter (interest is on the type of work being done on the topic)
- Meetings are intended to ensure that QuakeCoRE is not seen as simply a source of funding ($4.2M/yr fund divided across 9 areas)

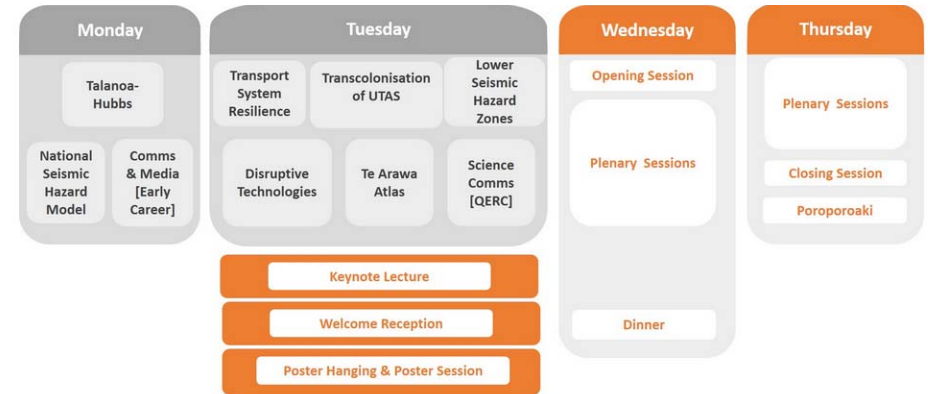**Focus on community development and maintenance that is central to the role of QuakeCoRE**

QuakeCoRE Annual Meeting

- 30 August – 2 September 2021
- Rutherford Hotel, Nelson
- Registration is now open!

http://www.quakecore.nz/annualmeeting/

QuakeCoRE Annual Meeting Programme

QuakeCoRE Request for Proposal/PhD Scholarship round

- Likely September – October 2021

QuakeCoRE DT1 Wikipage

https://wiki.canterbury.ac.nz/display/QuakeCore/DT1+Monthly+videocalls