



QuakeCoRE
NZ Centre for Earthquake Resilience
Te Hiranga Rū

Wellington Earthquake Resilience Collaboratory Workshop

3 Sept 2019

Nelson, New Zealand



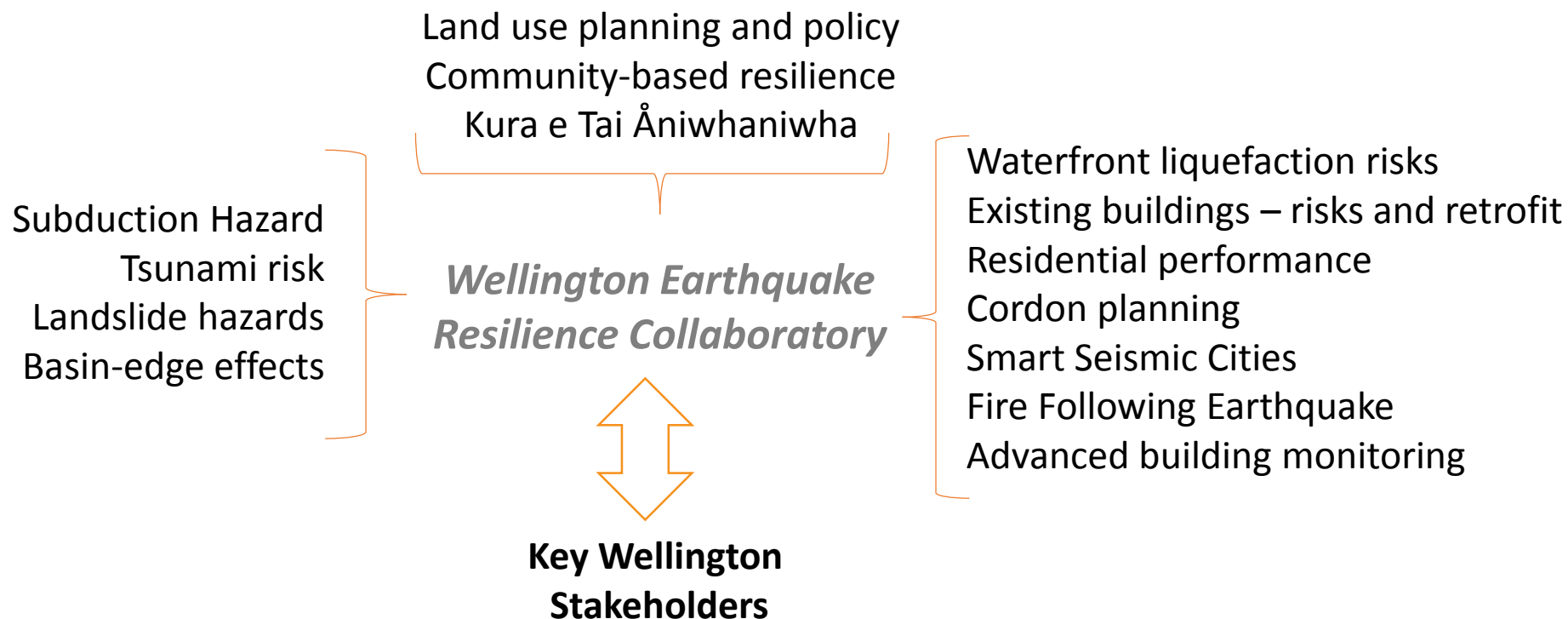
Wellington Earthquake Resilience Collaboratory



*A multi-agency collaborative work programme,
open to any project with a focus on Wellington Earthquake Resilience.*

Includes projects funded under:

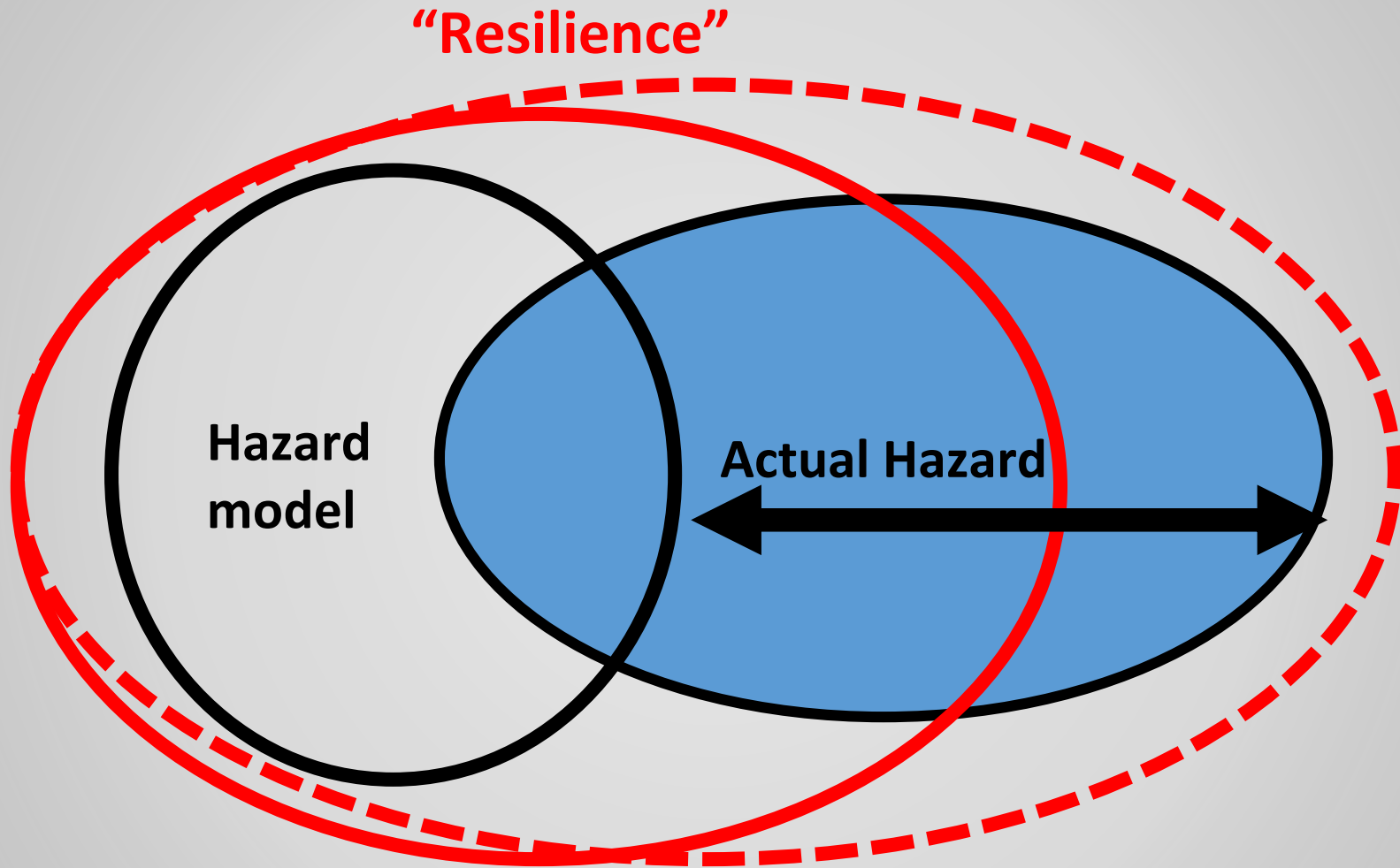
It's Our Fault, QuakeCoRE, Resilience Challenge, MBIE Endeavour, GNS SSIF, anyone else...



Plan for bigger than expected earthquake



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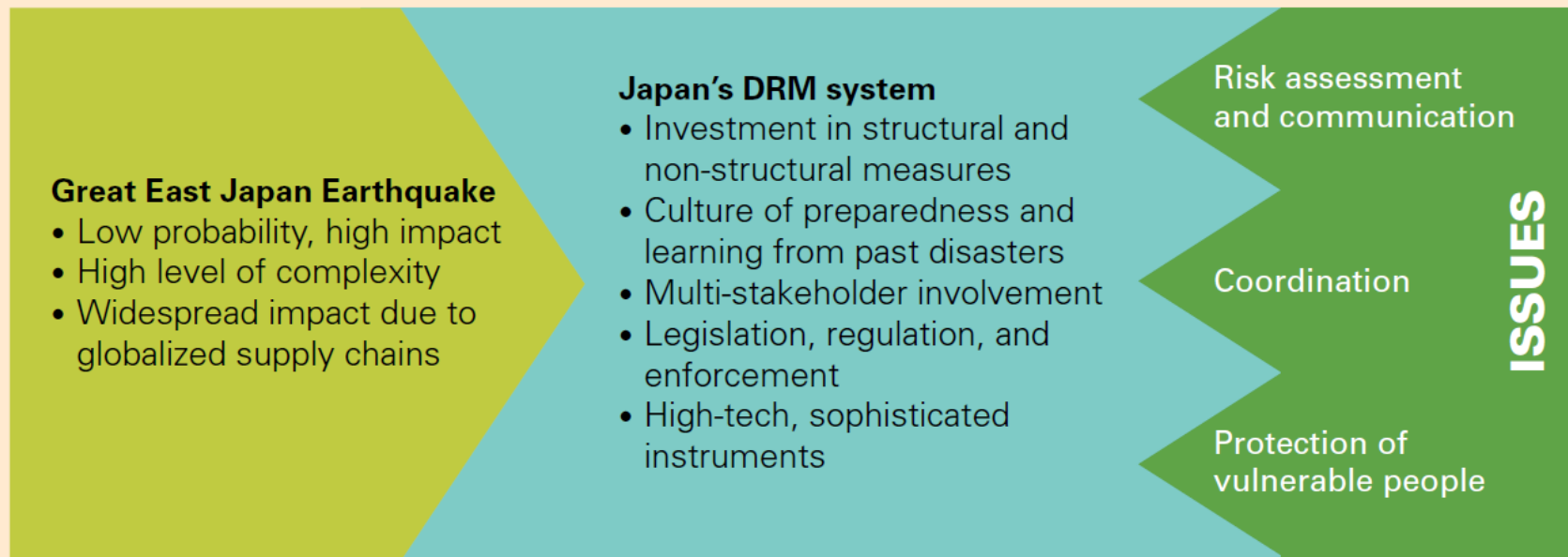




Learning from Mega-disasters

The Great East Japan Earthquake (World Bank)

FIGURE 2: **Summary of findings and lessons learned from the project**

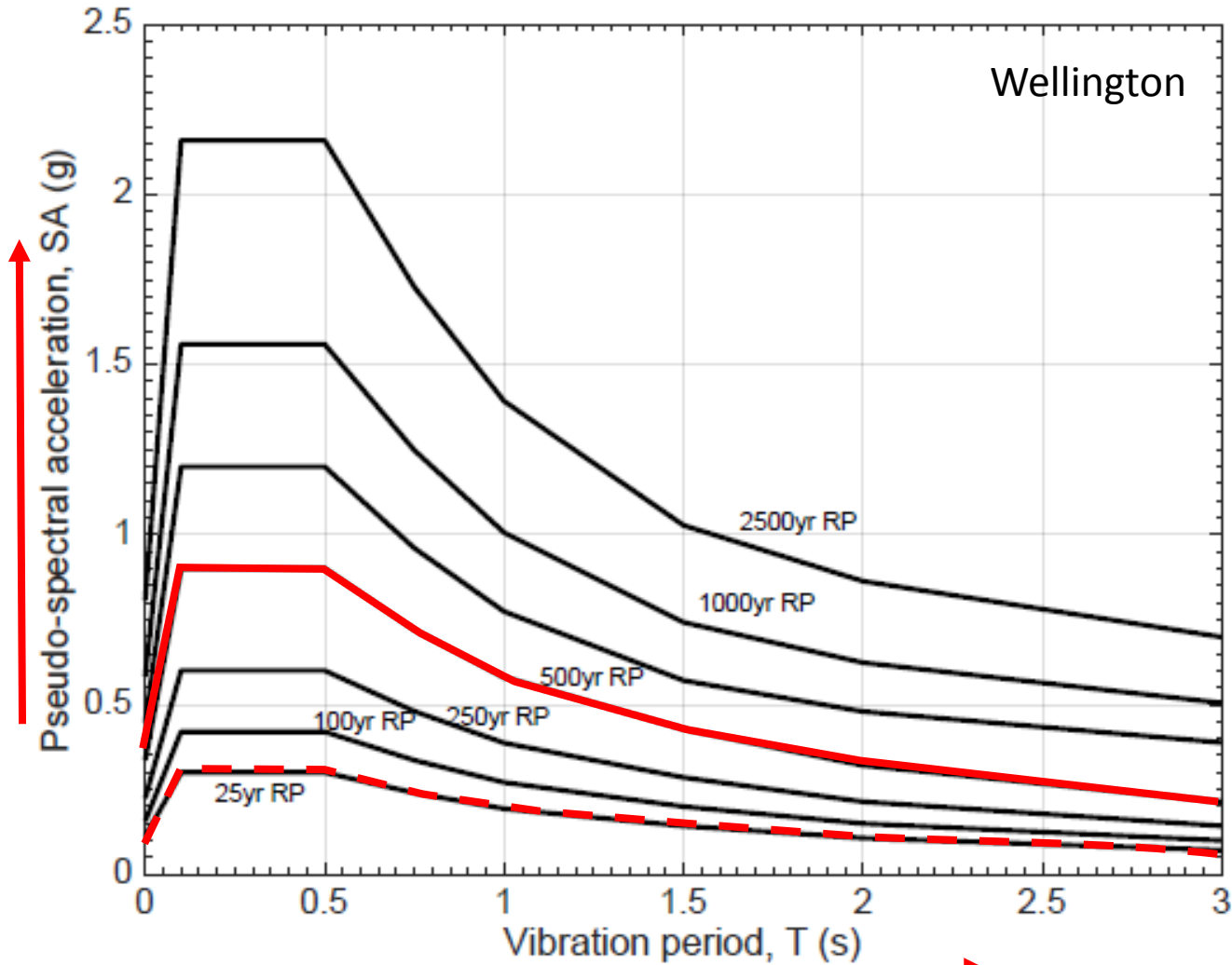


“Design” Earthquakes



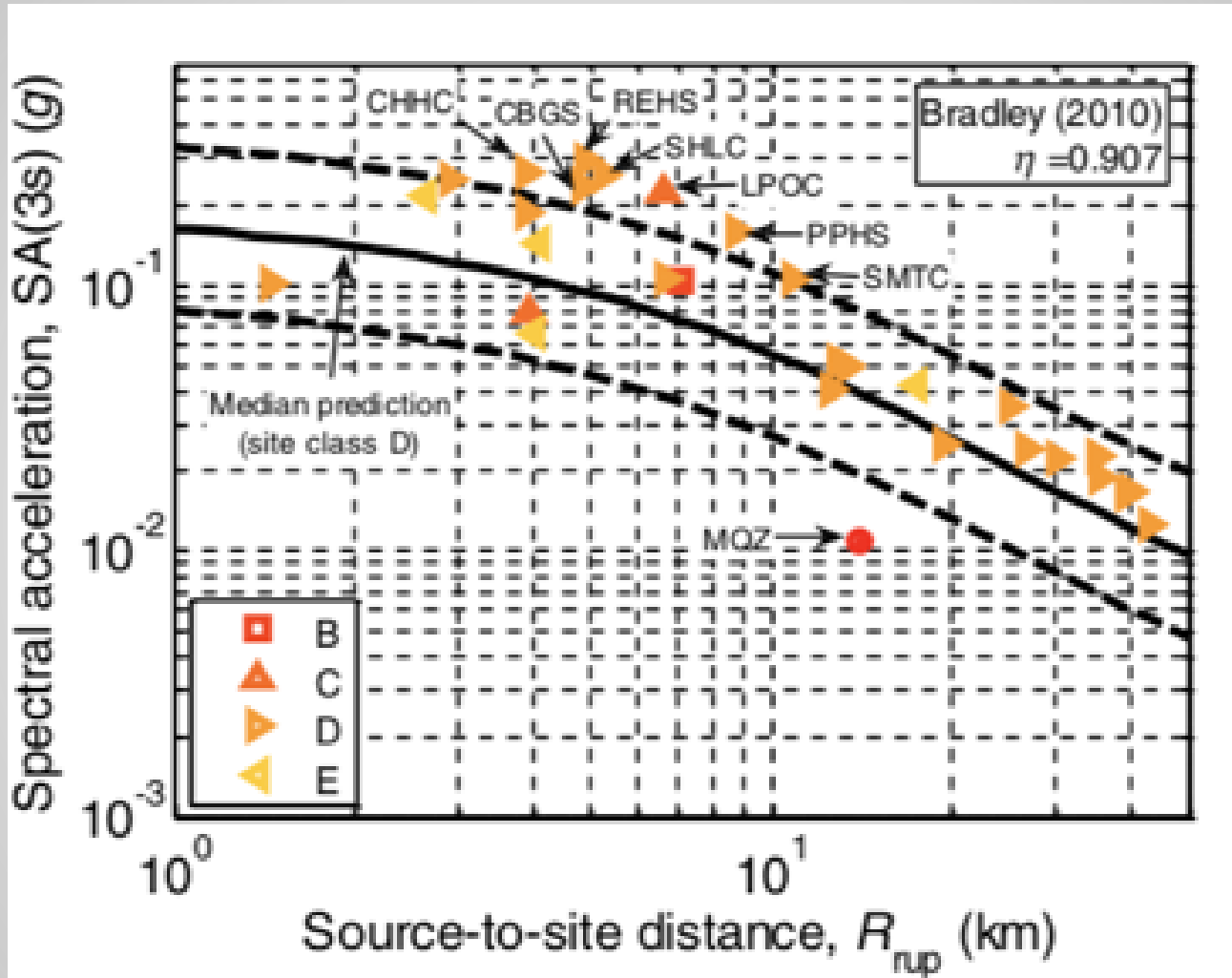
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More
intense
shaking

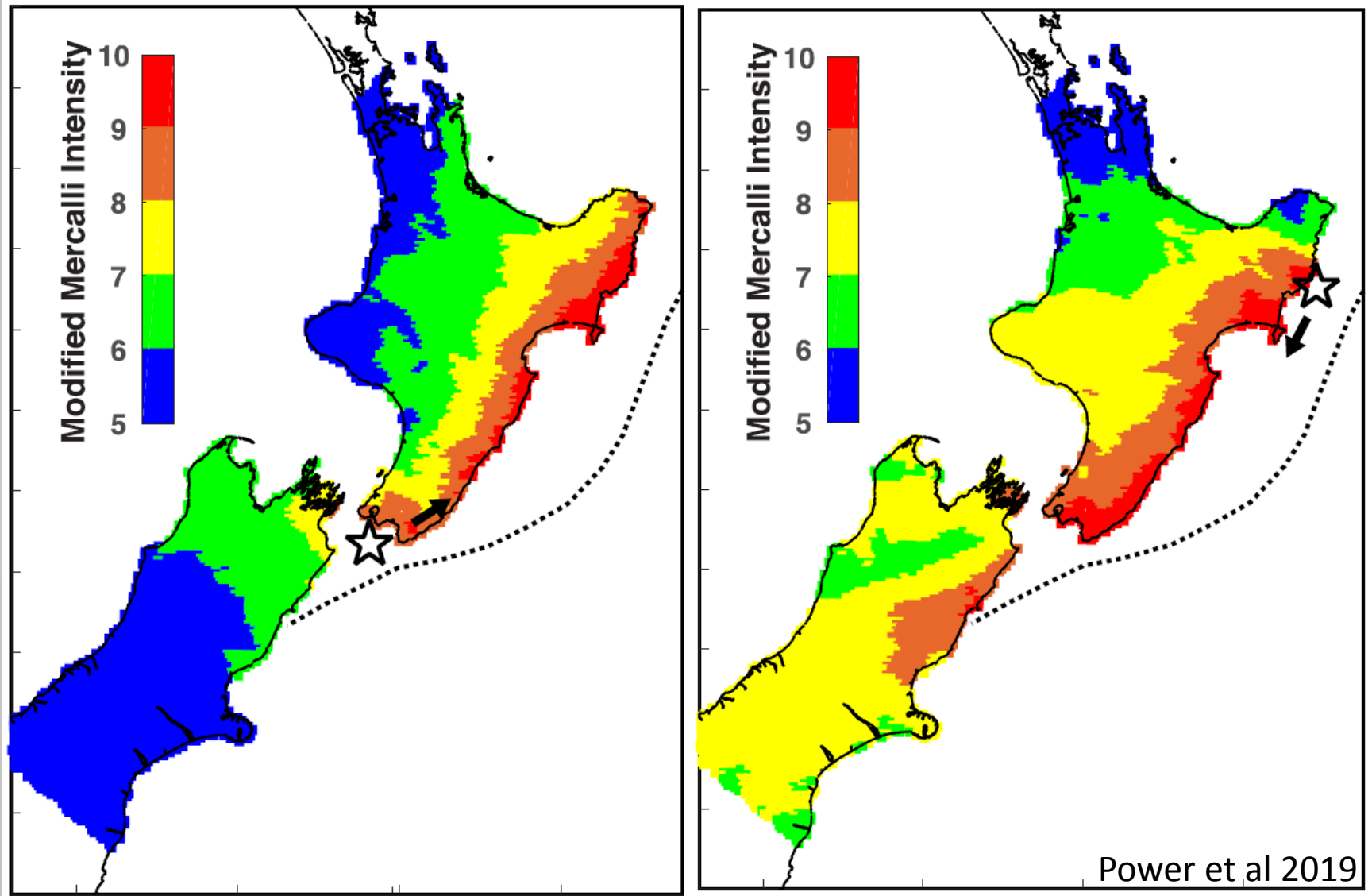


Taller buildings

Uncertainty in predictions



Hikurangi subduction zone



Today's goal

- Explore how sensitive the performance of our cities (and our recovery) is to this uncertainty in size of future earthquakes.
- Imagine a “larger than expected” earthquake has occurred
 - What are the impacts?
 - What can we do now to manage these impacts?
 - How do we “prepare to fail gracefully”?
- Develop an action plan for research and implementation



| | |
|-----------------|---|
| 10am-10:15am | Arrive for morning tea |
| 10:15am-10:30am | Setting the scene (Ken Elwood and Caroline Holden) |
| 10.30am-11.15am | The people of Wellington (Julia Becker and Dan Neely) |
| 11.15am-12.00pm | Infrastructure (Liam Wotherspoon and Charlotte Brown) |
| 12.00pm-12.45pm | Lunch |
| 12.45pm-1.30pm | Land-use planning for hazard management (Wendy Saunders and Derek Baxter) |
| 1.30pm-2:15pm | Buildings – existing and new (Tim Sullivan and Dave Brunsdon) |
| 2:15pm-2:30pm | <i>Retrofit Prioritisation Survey (Ilan Noy)</i> |
| 2:30pm-3:15pm | Insurance (Michael Drayton and Ilan Noy) |
| 3.15pm-3.30pm | Afternoon tea |
| 3:30pm-4.15pm | Response and recovery planning (Natasha Goldring and David Johnston) |
| 4.15pm-4.45pm | Building an “Action Plan” |
| 4.45pm-5.00pm | Wrap up |

Speakers – each speaker are asked to speak for 5-10 minutes with no more than five slides