

Societal Resilience Research in 2012-2013



NHRP

Natural Hazards Research Platform



Vision

Well-prepared and resilient communities

We understand and apply the critical cultural and socio-economic success factors determining resilience



Key Research Questions – part 1

- What are the key social, cultural, and economic factors that lead to resilience?
 - Individual, family, community, organisational
 - How can we use these factors to increase preparedness and resilience?
- What planning, policy, and organisational frameworks are necessary to reduce risk? What's working/ not working and why?
- How can hazard and risk information better inform planning , public decision-making and risk management processes?
 - What are the barriers and opportunities?
 - How do we communicate risk?



Key Research Questions – part 2

- How effective are our emergency management procedures, and crisis management practices?
 - How do we evaluate practice and are we learning from events?
- What is the range of physical, cultural, economic, psychosocial, and political, impacts of disasters on individuals, communities and organisations, over varying time frames
 - how can this knowledge optimise the recovery process?
- What are the key steps by which society transitions back towards a new equilibrium after a disaster?

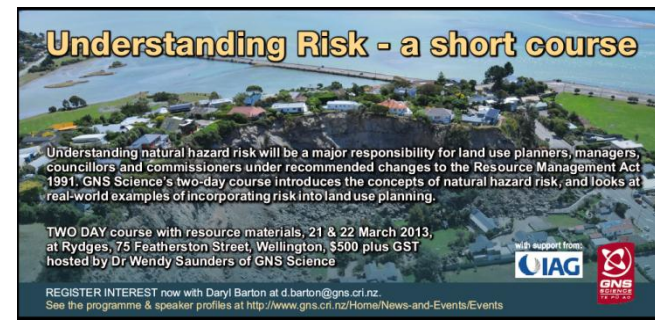
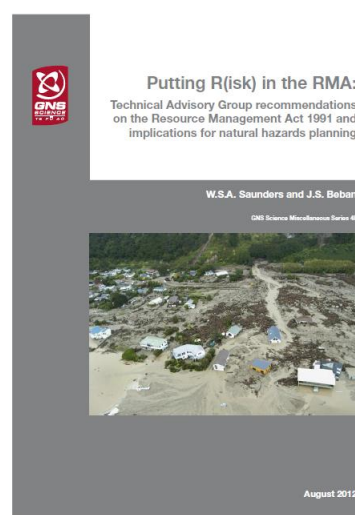
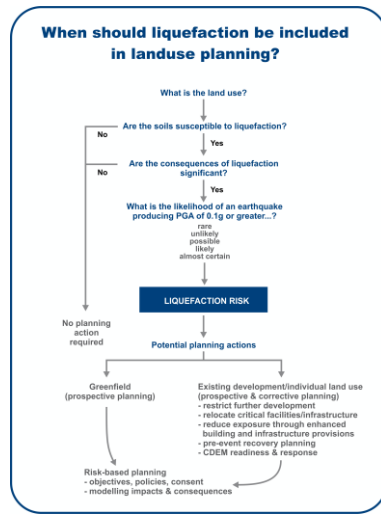
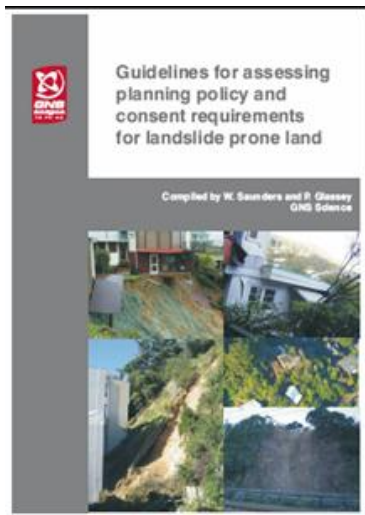
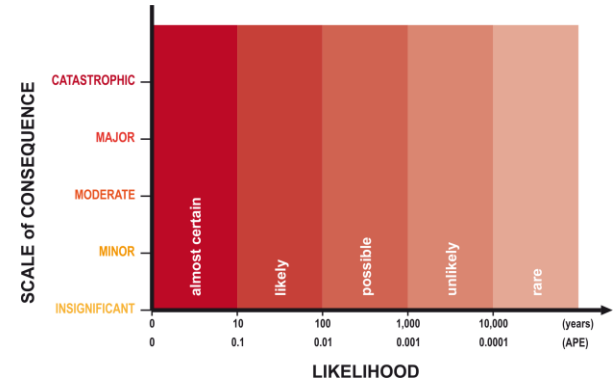
Three main research groups

- GNS Science - led consortium - Te Runanga o Ngāi Tahu, CERA, Motu, Massey, Canterbury, Victoria, Otago universities and a range of other local and international collaborators
- Resilient Organisations (ResOrgs) – synthesis of business and engineering - collaboration between researchers across NZ, particularly at Universities of Canterbury and Auckland, with strong linkages to a range of industry partners within New Zealand and internationally
- Opus Research - led group that includes collaborations with BERL, Victoria University and BRANZ, as well as working with a range of stakeholders
- All are linked and involved across four research themes

Land-use Planning, Public Policy, Risk Communication

Strong focus on developing practical tools for local government and communities

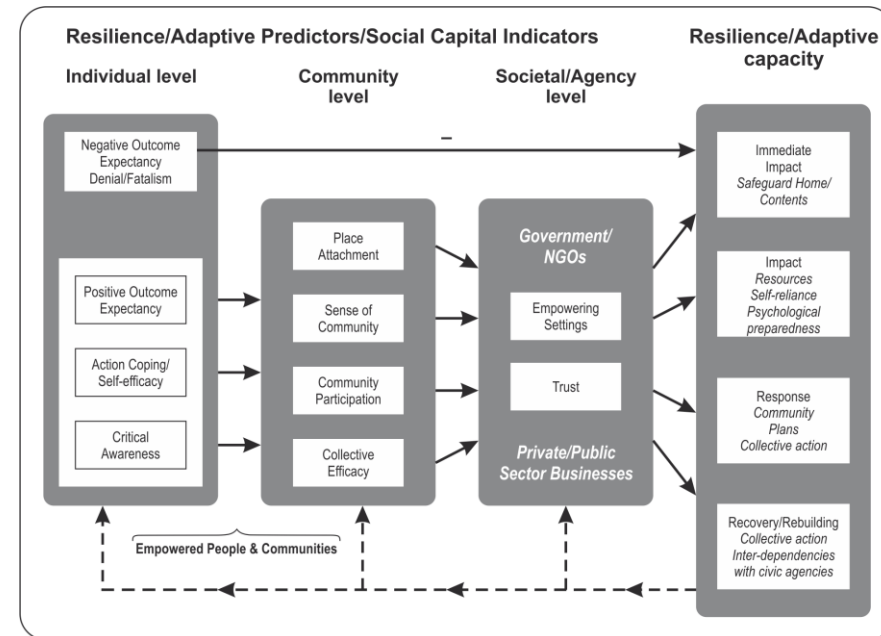
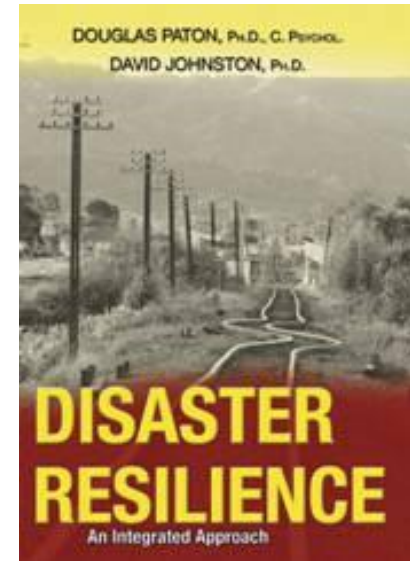
- Written and web-based guidelines
- Courses and Workshops
- Sample district plans (for treatment of hazards)
- Submissions and commentaries (TAG report)
- Popular articles



Community Resilience

Strong focus on learning from the complex Christchurch recovery process

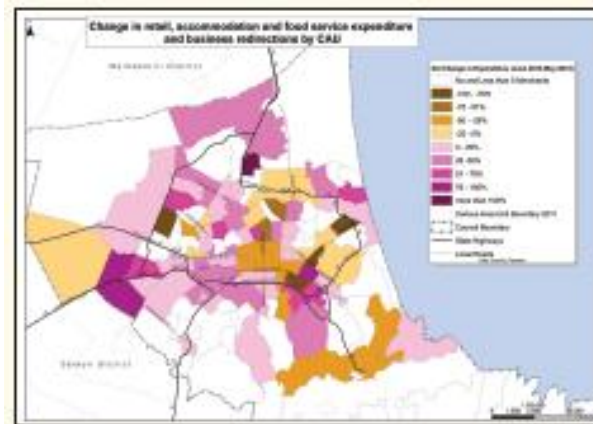
- Te Runanga o Ngāi Tahu has partnered with the Platform to explore the iwi response to the earthquake
- Longitudinal surveys
 - The Canterbury Wellbeing Survey (CERA)
 - Individual preparedness survey
 - Community resilience survey
- Benchmarking models and tools for local government application
- Direct integration of results into public education strategies and plans
- Unlocking community-led resilience



Organisational Resilience

*Strong focus on developing practical tools for businesses and business sectors
& learning from Christchurch*

- Longitudinal surveys and datasets
 - Impact of events on Canterbury businesses and organisations,
 - Factors affecting their recovery and the relationship of these factors to organisational resilience,
 - Consequences of business relocations on Christchurch's spatial form and viability of business centres
- Impact of construction business delivery systems on recovery and reconstruction
- Public perceptions of risk and the linkages to economics and public policy
- Benchmarking surveys for local government to assess local organisational resilience
- Web-based tools for businesses
- Guidelines; popular articles; presentations; reports



GETTING YOUR BUSINESS READY TO 'GET THRU' IS PARTLY ABOUT DOING SOME PLANNING AND PARTLY ABOUT ENSURING YOU DEVELOP PRACTICES TO BECOME MORE RESILIENT.

This short guide will take you through steps that help you with both. Each area will have a what, a how, and a why, as well as links to further resources or help at the end of the guide. It's not hard. There are simple, practical easy things that will get you well on the way to surviving in a crisis and potentially thriving in the aftermath.

Effective warnings and emergency management

Strong focus on developing practical tools for civil defence emergency management and communities

- Written guidelines and national standards
- Best practice response planning – direct engagement with local CDEM groups, EMOs and communities
- Workshops; courses; presentations; working EOC



Future Focus

- Improve linkages across the themes within the Platform
 - to direct a more concerted inter-disciplinary effort at big and complex problems
- Improve the transfer of existing knowledge into policy and practice but also direct new research toward specific policy and practice knowledge gaps
- Enhance connectedness with global research programmes
- Investigate the range of impacts on communities from disasters, using longitudinal evaluative methodologies to better understand the recovery process
 - happening in Canterbury and is of global significance,
 - needs a long-term strategy and accompanying investment.