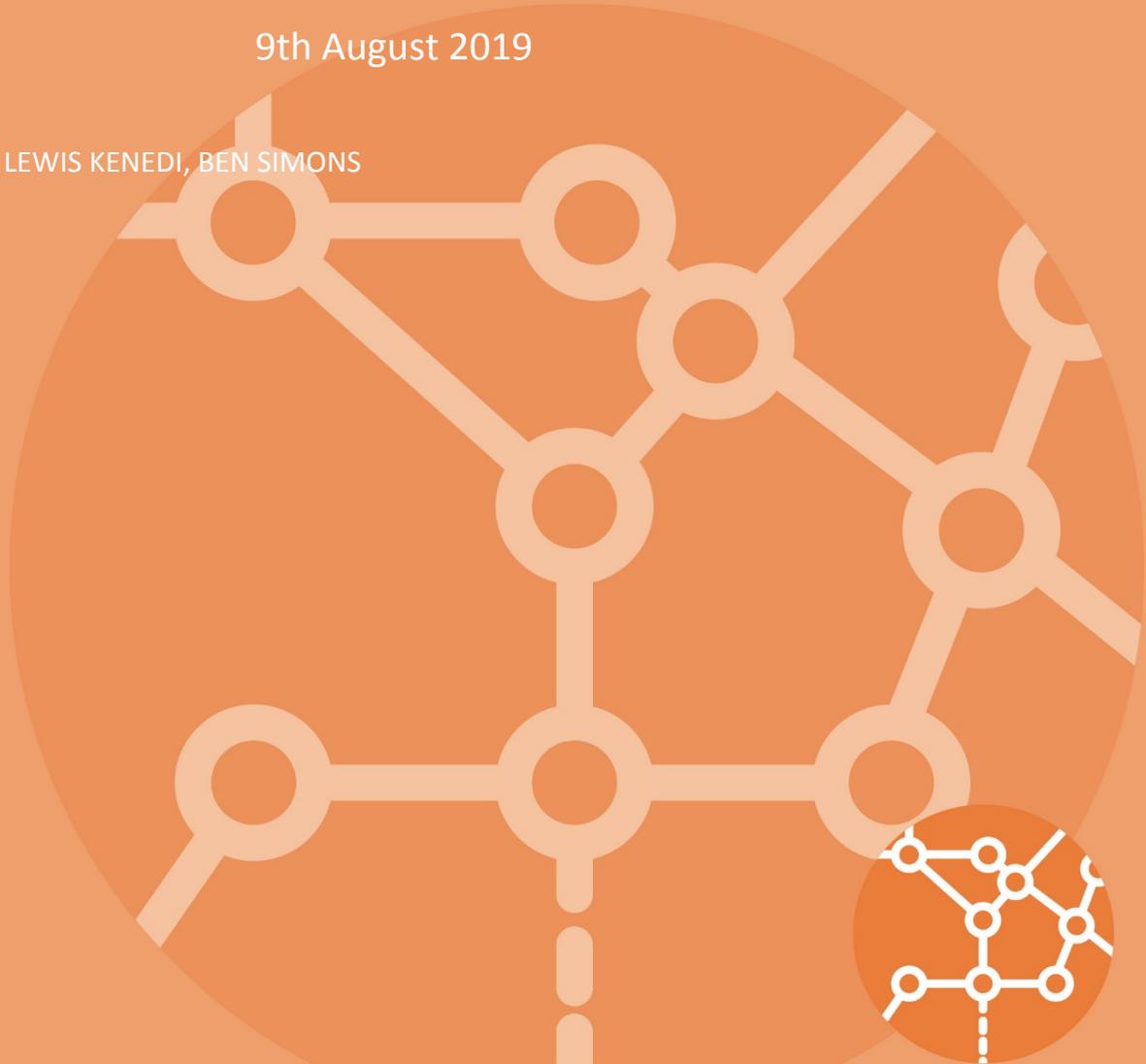


# Pathways and Recovery Workshop Report

9th August 2019

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Urban

RESILIENCE  
TO NATURE'S  
CHALLENGES

Kia manawaroa  
– Ngā Ākina o  
Te Ao Tūroa

National  
**SCIENCE**  
Challenges

# Pathways and Recovery Workshop Summary

9 August 2019

Agenda and attendance list included at the end

Please direct questions to Kate Lewis Kenedi [katelk@auckland.ac.nz](mailto:katelk@auckland.ac.nz)

This workshop aims to bring together researchers and stakeholders interested in post-disaster recovery as well as all levels of governance for resilience.

## 1. Introductions and welcome: Jan Lindsay

- Jan introduced the Urban theme and work streams.
- Recommended reading the National Disaster Resilience Strategy:
  - Link to MCDEM website with all the versions of the strategy <https://www.civildefence.govt.nz/cdem-sector/plans-and-strategies/national-disaster-resilience-strategy/>
  - Link to the PDF of the NDRS document <https://www.civildefence.govt.nz/assets/Uploads/publications/National-Disaster-Resilience-Strategy/National-Disaster-Resilience-Strategy-10-April-2019.pdf>

## 2. Overview of Recovery research in aligned projects including NHRP: Suzanne Wilkinson (and discussion)

- Last few years has had a focus on Auckland in the Cities to Cities programme.
- Researchers work alongside various agencies to see what they need
- Examples of Recovery projects her team has been involved in:
  - 2009 – 2015 Bushfire recovery project with Australia: How long does recovery take?
  - Indonesia: Resourcing recovery: What is needed for effective long-term recovery?
  - Indonesia: Relocated communities project.
  - China: Strategies that different countries use for recovery and associated outcomes
  - Projects in Sri Lanka, Samoa, Vanuatu, Cook Islands, Fiji, Nepal.
  - Christchurch case studies: Projects on rebuilding, the construction sector, resource availability.
- Building Back Better project and book: How do we build back better?
  - <https://buildbackbetter.co.nz/>
  - The website is getting a lot of international attention.
- Possible focus for the Urban PhD student:
  - Urban recovery using an Auckland weather recovery scenario, what has been done, what could be done in the future (future recovery scenarios).
  - Understanding the relationship between the built environment and economic recovery – such a big impact on long term recovery.
- Suggested action for the RNC2: Make it easier for people to access information.
  - Currently we need to know the researcher to get real info on what is being done.
  - The Challenge could consolidate what's being done.

### **3. Overview of psycho-social Recovery research: David Johnston (and discussion)**

- RECAP Recovery Capitals – partnership between Massey U and U of Melbourne with Australian Red Cross.
  - Bushfire CRC (Cooperative Research Centre) Australia – funders.
  - NZ Red Cross, FENZ, WREMO are NZ agencies.
  - Practice and research on recovery: What have we learned and how does it affect what we do in the future?
  - Learning legacy from the government and researchers.
    - Looking at the evidence-based learning to come out of the Canterbury earthquakes – huge amounts of information.
    - Process: How does local government engage with communities to set the priorities?
    - Denise Blake – stream of research looking at marginalised communities.
  - Julia Becker – co-leader with Nick Cradock-Henry of the Resilience and Practice Model theme/model (RPM) which has a recovery workstream.
    - How do you pre-plan for recovery? Need a strategy.
    - Scenario-based approach.
    - How to link to existing projects.
  - Outputs? Still in discussion. Definitely some academic outputs but also others
- Communication design – Emily Campbell is developing tools to help people get what they need to know.

### **4. Overview of governance for resilience research: John Hopkins (and discussion)**

- Carries out governance and disaster research.
- Formed the Law and Disasters research group at University of Canterbury after the Canterbury earthquakes.
- Fundamental question of a law and society approach to disasters: What is required to keep society going?
- Problems to address: We use the language of emergency for disasters and recovery, which can go on for decades. Legislation also fails to distinguish between the two. We need different language.
- Work with QuakeCORE: Regulating for resilience in an earthquake-vulnerable city, particularly working in Wellington.
- Problems to address: Ownership. People resent being told what to do with “their” property.
- Problems to address: We do not do well at thinking in advance what could/will happen. E.g. in Auckland we let people build houses in ridiculous places.
- Issues of disaster law become issues with the RMA: “Disaster law is actually just real law”.

## 5. Discussions/workshopping so that by the end of the workshop, we aim to have:

- A. Identified the state of current research in the **recovery space** in New Zealand, especially in the context of RNC1, and outlined key priority areas for future work.
- B. Identified the state of current research in **policy and planning for resilience outcomes** in NZ, and outlined key priority areas for future work.
- C. Defined the scope of two PhD projects to support the identified research needs.

We had two discussion sessions, first on recovery (A) and second on policy/planning/governance (B). In each session, we used flip chart sheets to brainstorm in groups. This is the summary of what we wrote on the sheets and what we discussed after that. The sections below summarise our ideas on: A) The gaps in recovery, B) The gaps in policy/planning/governance, and C) Possible research projects that address A and B. Project ideas are divided by category.

**The questions we sought to answer were: What are the gaps and what are the possible specific projects that could address these gaps?**

### **A: What are the gaps in our knowledge of urban recovery?**

- We need to identify what has been done and how good it is. What can we use or not?
- How can we apply knowledge across disasters?
- How can we integrate priorities for Māori communities and not impose outsider priorities?
  - What are iwi and hapū self-identified priorities?
  - Same question for other marginalised communities.
- More work on monitoring recovery.
- How are recovery targets defined? E.g. in fast-growing cities and smaller cities and towns.
  - How do we scale knowledge over different size of cities?
- How do we understand linkages between these targets? Social, cultural, physical, economic.
- Look at targets from different contexts: Technology and recovery, the built environment, uncertainty and recovery, ecosystems.
  - How do we define recovery targets? What does that mean in different sectors?
- How do we avoid wasting time/ over-consulting (during recovery in particular)?
- How do we balance expense in rebuilding, e.g. Build Back Better and also faster? Who pays for this?
- We need to look at government relationships, e.g. compare Christchurch and Kaikoura, rural and urban.
  - Could be a project aligned with both the urban and rural themes.
- How do we delineate between rural and urban environments?
- How many people rent vs own property in any given city?
- Auckland volcanic eruption: How would Auckland Council respond? How would iwi respond? Would iwi see AC as speaking for them (probably not)?
- Society has fracture lines that a disaster exposes; how do you manage them?
- Accommodation during a disaster: Managing displacement. Do people stay in place? Is that workable over the long term? E.g. Wellington roads blocked by landslides.

- Community expectations of recovery: What do people expect? People expect a quick recovery, so when it takes longer it contributes to stress, e.g. dealing with insurance in Christchurch.
  - How do we manage expectations? Take some of the pressure off.
  - BUT politically that's untenable; someone will say they can fix it in a week even if they can't and get elected.
- Disproportional impacts based on gender, gender identification.
- We need to take a systems-thinking approach, test our assumptions.
- We need to take a long-term approach, not just short-term considerations.
- Look at NZ-based research into community interactions during recovery.
- Why do communities exist where they do? What do they expect from a post-event urban environment and what would it look like? How can we engage with them? (*see possible project below*).
- Tap into local government or local authority of the technical knowledge of urban recovery. Do we have the skill sets in local government to do that or is an assumption that if we need it, it will be there?
- Tap into alternative models of resilience and recovery, e.g. the urban poor, indigenous peoples, resettled communities, rural communities.
- Be forward looking – if we're going to change things after an event why not start changing them now?
- Look at regional urban hubs such as Tauranga and Napier.

## **B: What are the gaps in our knowledge of effective governance (including policies and plans) for resilience?**

*We were encouraged to broaden our thinking away from recovery and include land-use planning, mitigation, budgeting within local government... to think about governance with a broad resilience lens.*

- How do we bridge the gap between climate change adaptation and hazard planning? (*see project idea below*).
  - What learnings can be taken from existing sustainability research and planning?
- How do we ensure that governance bodies effectively reflect and include voices from all parts of our diverse communities? How do individuals feel involved and that they have agency?
- We need to treat resilience as an investment, not a cost. It needs a multi-criteria benefit analysis.
  - How do we incentivize this?
- Understand more about governance for "off-grid" or micro-grid type approaches. How is it enabled and coordinated?
- How do we get to regulation that encourages a long-term view? Especially in the current regulatory framework.
  - E.g. Building regulations that are performance/outcome based.
- Focus on local government.
  - Local governments deal with the communities.
  - How can we use local governments for infrastructure strategies? E.g. if people don't have to go to consultation but can just do something.

- We can impose limits on legislation, e.g. as has been done with human rights: Could we do this with hazards?
- Risk and informed risk: People say they'll accept it but forget/change their minds. BUT people also want to know if they live in a tsunami zone.
- How do we incorporate long-term views into resilience?
- What are the impacts of enforcing / implementing existing rules on different sectors of communities, e.g. a building code on older people who own property?
- Existing regulatory tools do not always have the expected outcome, e.g. CERA.
- Land use planning / infrastructure.
  - How is the science informed?
  - Need regulation other than the RMA, protection measures, not just a development focus.
- What changes people's and councils' behaviour?
  - What are expectations vs. reality?
  - What are non-legislative options vs legislative?
- Governance as a concept.
  - Leadership: balance between politics and governance.
  - Scientists' view of their role: advising vs defining the frame.
- Cumulative risk as a society: Individuals accept risk but the government steps in (needs to step in?) when there are too many people affected.
  - Examine risk in terms of time frames, informed risk, existing use rights, other mechanisms?

### **C. Define the scope of PhD projects to support the identified research needs**

What specific projects might help address gaps in our knowledge of **urban recovery**?

- Recovery from a high-impact weather event in Auckland.
- Look at government relationships, e.g. compare Christchurch and Kaikoura, rural and urban
  - The project could be aligned with both the urban and rural themes.
- What do you do if the land is broken? E.g. the legacy of Red Zones and property rights.
- How disaster fractures communities, e.g. post-disaster issues with diversity, violence.
  - E.g. how do hapū and iwi interact with council, with established pākehā families, with recent arrivals – all can be disrupted.
- Project around cumulative risk-based planning. Instead of looking at individual events look at the cumulative risk that communities are exposed to and do urban plans based on that.
- How do demographics and therefore vulnerabilities change after an event?
- Analyse and model alternative / emerging models of resilience and recovery, e.g. the urban poor, indigenous peoples, resettled communities, rural communities.
- Why do communities exist where they do? What do they expect from a post-event urban environment and what would it look like? How can we engage with them?
- What is the use of uncertainty in recovery planning?
- What is the role of technology in recovery?
- What is required for a city to function?
- How does the difference between renting and owning affect recovery?
- What knowledge is required for effective pre-event recovery planning?

- How do we bridge the gap between climate change adaptation and hazard planning?

What specific projects might help address gaps in our knowledge of effective **governance for resilience**?

- Regulating for resilience in a city vulnerable to volcanic eruption (e.g. what regulatory tools are needed to make Auckland a survivable city in the event of an eruption?)
- A project around cumulative risk-based planning. Instead of looking at individual events look at the cumulative risk that communities are exposed to and do urban plans based on that.
- Evaluate the effectiveness of current regulatory tools in risk mitigation.
- What can we put in place to avoid an Auckland CERA, i.e. a national government takeover?
- How can we bring iwi partners into a recovery governance framework?
- Comparative study of Auckland volcano-related plans with other cities / hazards.
- Look at informed risk and property values and cultural change – what are changes over time? Can we realign property values?
- How do we bridge the gap between climate change adaptation and hazard planning?

***Final thought: Is there a summary report of Urban outputs from RNC1? Can we get a report through the Challenge reporting system? It is our responsibility to make it available to communities in NZ***

# Agenda: Pathways and Recovery Researcher and Stakeholder workshop

9 August 2019

Arts 2/Cultures, Languages, and Linguistics (Building 207), 18 Symonds Street: Pat Hanan Room 501

## 9.00 – 12.30:

This workshop aims to bring together researchers and stakeholders interested in post-disaster recovery as well as all levels of governance for resilience.

- |              |   |
|--------------|---|
| 9:00 – 9:10  | Introductions and welcome (Jan Lindsay)   |
| 9:10 - 9:30  | Overview of Recovery research in aligned projects including NHRP (Suzanne Wilkinson)    |
| 9:30 - 9:40  | Overview of psycho-social Recovery research (David Johnston)                            |
| 9:40 – 10:00 | Overview of governance for resilience research (John Hopkins)                           |
| 10:00-10.30  | Discussion/questions  |
| 10;30-11:00  | Morning Tea   |
| 11:00-12:30  | Structured discussions/workshopping so that by the end of the workshop, we aim to have: |
- Identified the state of current research in the recovery space in New Zealand, especially in the context of RNC1, and outlined key priority areas for future work.
  - Identified the state of current research in policy and planning for resilience outcomes in NZ, and outlined key priority areas for future work.
  - Defined the scope of two PhD projects to support the identified research needs.

## **NRC2 Urban Theme: Pathways and Recovery Workshop Attendance List**

*A-Z order by family name*

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