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Resilience Trajectories for a Future-Proof New Zealand

The Trajectories Toolbox

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CHALLENGES

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The Trajectories Toolbox

The Trajectories Toolbox is one of the strategic research programmes funded through the Resilience to Nature's Challenges (RNC); one of New Zealand's National Science Challenges. This programme is designed to help researchers and research stakeholders identify barriers and potential opportunities to accelerate progress toward the vision of a resilient New Zealand. The tools developed as part of this research programme are focused on creating systematic approaches to resilience, detecting obstacles and opportunities for the enhancement of resilience, and assessing where and how to invest in such enhancements.

The four projects within the Trajectories Toolbox are:

- The Kickstart 2 Measurement (K2M) Heuristic
- The DIVE platform
- The New Zealand Resilience Index
- The Warrant of Fitness

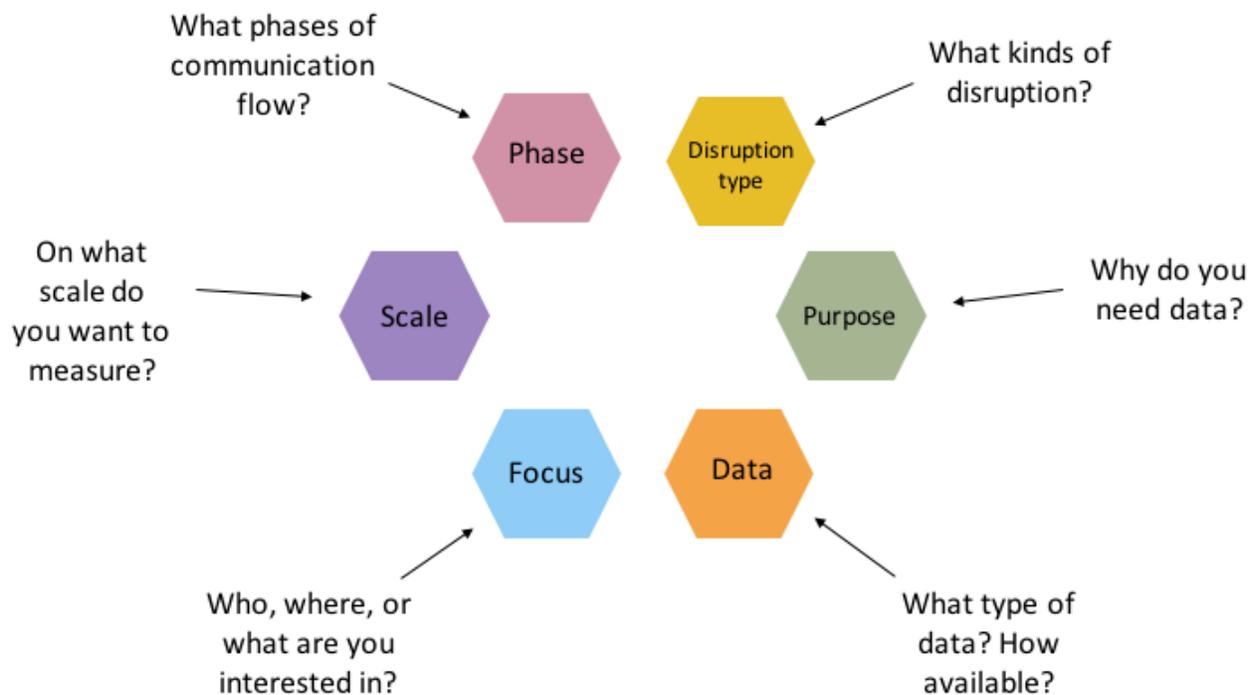


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The K2M Heuristic

The K2M (Kickstart 2 Measurement) is a decision support tool designed to help prioritise complex measurement efforts. The tool is deployed as a systemic process for developing assessments of socio-economic and socio-technical phenomena (e.g., place-based resilience). So far, we have only deployed K2M in facilitated workshop settings. The visual below highlights the kinds of questions we address, and we are working on a more detailed description of the process based on case studies of recent workshops.





The DIVE Platform

The NZ Resilience DIVE Platform is a website that provides a catalogue of research and information that is relevant to disaster risk reduction (DRR) and resilience in New Zealand. The site helps people catalogue, discover, share, and use DRR and resilience data easily to make informed decisions and enhance problem-solving and innovation. The NZ Resilience DIVE Platform is created and maintained by *Resilient Organisations* and New Zealand's research community. It is funded by QuakeCoRE and the RNC National Science Challenge. The DIVE Platform:

- Allows for the identification of critical data for researchers and provides a searchable platform to find relevant, reusable datasets for new research
- Adds value to current research and datasets
- Fosters relationships between researchers and data providing organisations
- Aids response and recovery actions and decision making

The site is being prototyped and there will be a staged release of the platform through 2018.



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Indicators of Resilience

After an extensive review of existing national and international resilience measurement indices and indicators, a large 'bank' of indicators has been created for researchers, agencies, and organisations to use for their own purposes. Out of this large bank, a short-list of priority indicators has been developed to form the core measurement component of a New Zealand Resilience Index (NZRI). These indicators are grouped by capital domains:

- Built environment
- Cultural
- Economic
- Environmental
- Institutional
- Social

Each indicator has been selected to capture resilience that is relevant to the New Zealand context. All are intended to be measured nationally within a small area scale (Census Area Unit as appropriate), allowing for detailed comparisons within and between places. Publicly available secondary datasets have been used primarily to populate social and economic indicators. Data for the population of the other indicators across the other capitals is currently being identified from individual agencies. The NZRI is expected to be available by April 2018.



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The Warrant of Fitness

This project builds on work already completed as part of the New Zealand Resilience Index (NZRI), which benchmarks and assesses the resilience of communities across the country and over time.

The Warrant of Fitness (WOF) project is designed to advance the NZRI project. Through collaboration with co-creation partners in communities around New Zealand, the WOF aims to test, refine, and enhance the NZRI. As part of this project we are conducting a community case study to refine the index and provide a framework for general use. This co-creation endeavour will result in a valuable and useable Resilience Index that can both track progress and guide action.

The goal of this process is to develop a resilience assessment framework that allows communities to 1) benchmark their resilience against other communities or against themselves over time, 2) identify their resilience strengths and weakness, 3) define priority areas for intervention or other opportunities, and 4) assess their progress toward a more resilient future.



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