National SCIENCE Challenges

RESILIENCE TO NATURE'S CHALLENGES Kia manawaroa – Ngã Ākina o Te Ao Tūroa

RNC partnership: WSP Opus Research, Universities of Auckland, Canterbury, QuakeCoRE, Market Economics, Simplicitate

Multi-modal Corridor Forums: Connecting across the mobility system. Change the context of resilience decision-making

## System-level response: Corridor forums

Oberg et al, 2016. TransResProc. Governance of major transport corridors involving stakeholders

"...future ideas laboratories acting as meeting spots for development of the transport corridor on specific topics... multilevel interaction between stakeholders..." p.866-7 Provide a platform for collaborative, inclusive governance,

Practice interactions and decision-making to establish cross-system relationships prior to a major event,

Provide 'free-thinking creative space' to encourage transformative thinking about the future. Can we agree to do something different, even if it challenges existing ways of doing things?

Practice making decisions where there is uncertainty, where there are conflicting answers.

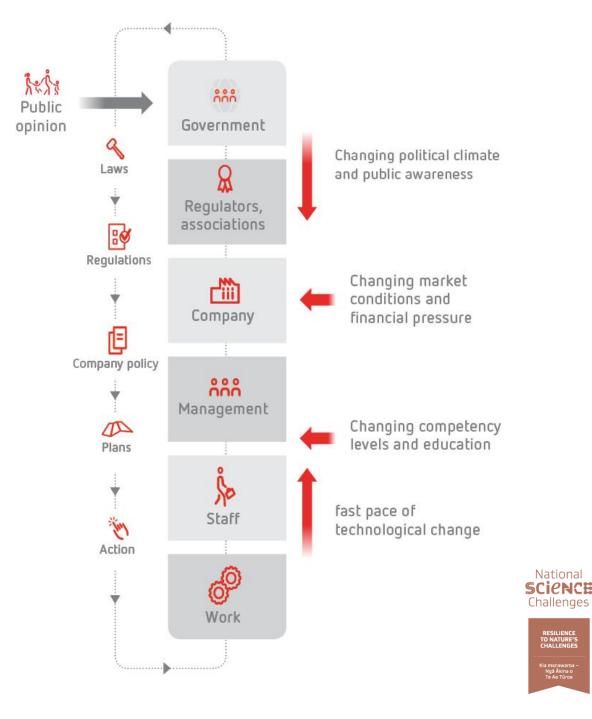


# The context of making decisions about networks

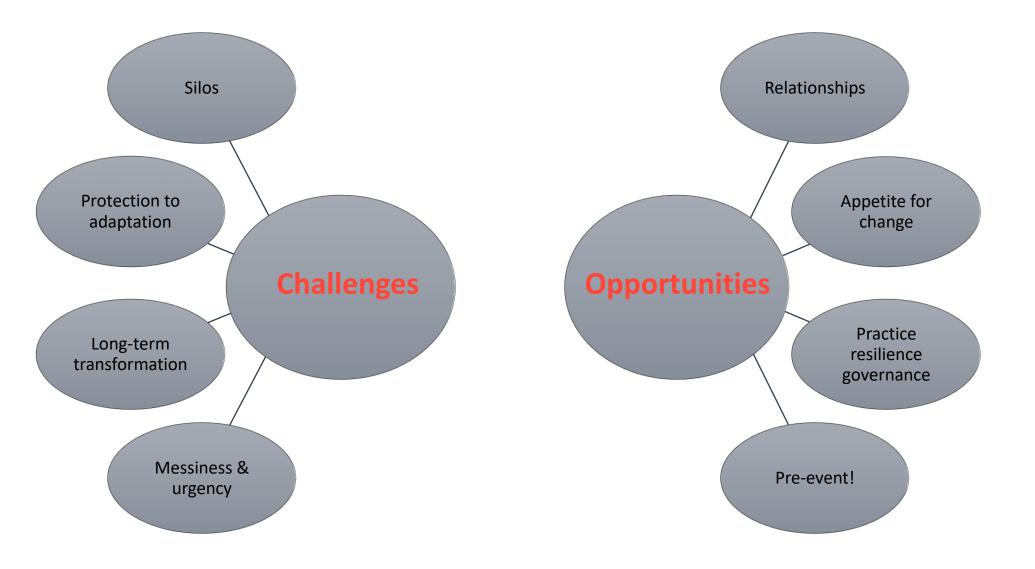
How can we make decisions to

enhance the resilience of the whole transport network?

- Who is involved?
- Where are the key interactions between parties?



## **System-level perspective**



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# Corridor forums – *NZ style*

Before an event,

Strengthen key system-wide relationships

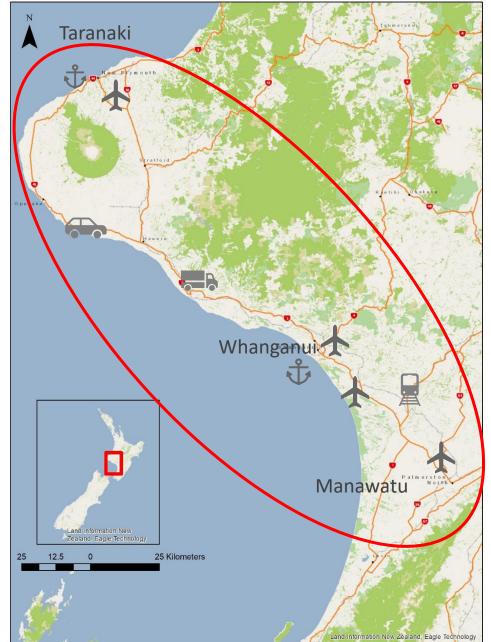
Develop appetite for change

Using:

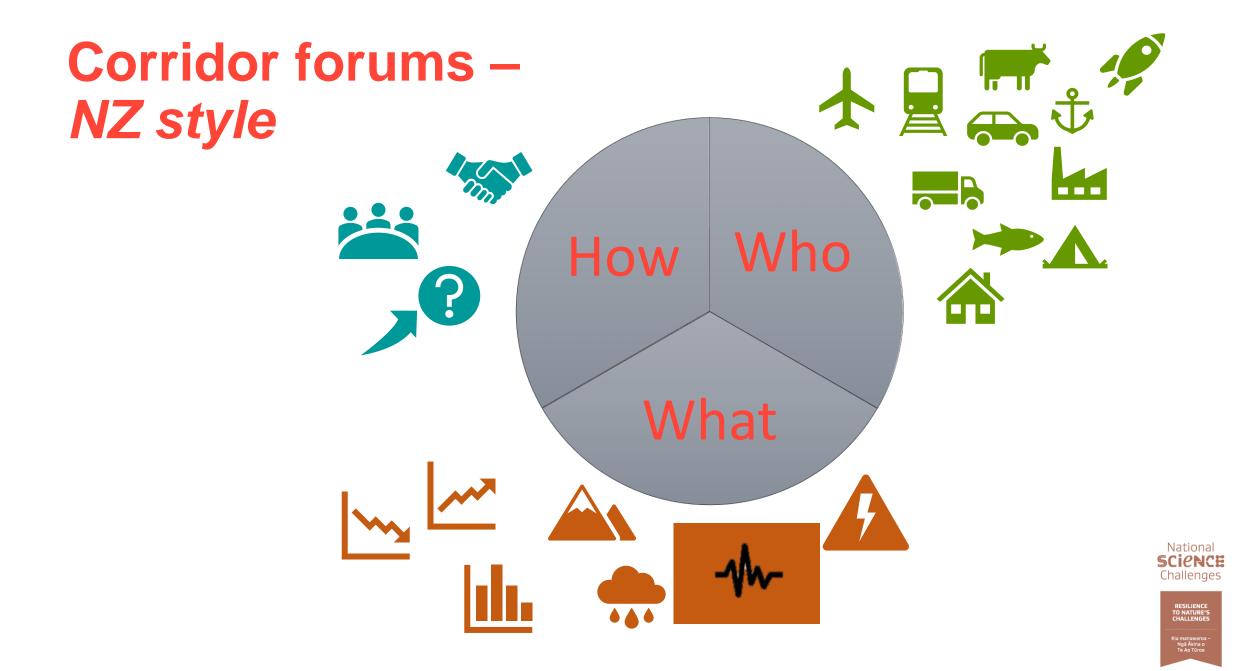
- Hypothetical but plausible scenarios of severe stresses & shocks
- 'Try out' alternative futures
- Identify milestones and tools to get there

Taranaki-Whanganui-Manawatu:

multi-modal, multi-regional, multi-level, multi-hazard



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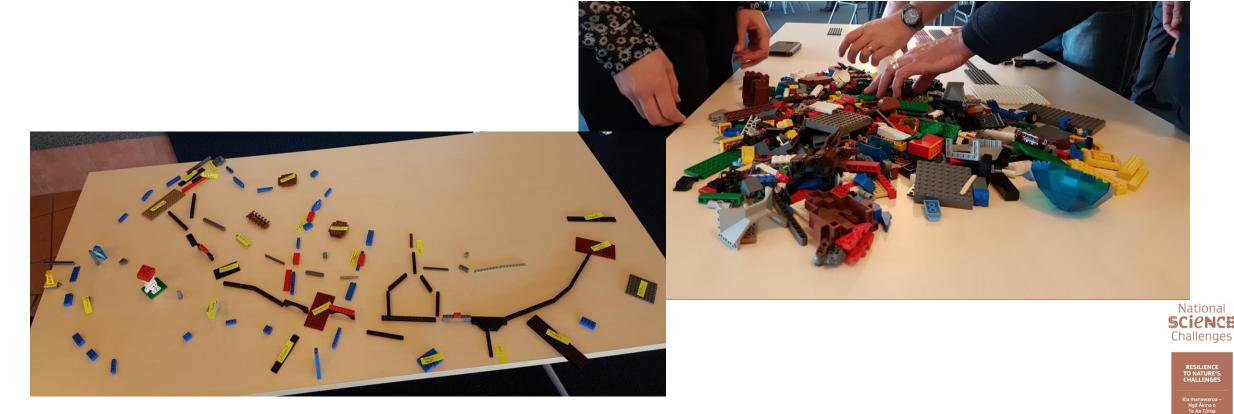


## **Knowledge of mobility** infrastructure, hazards, vulnerability

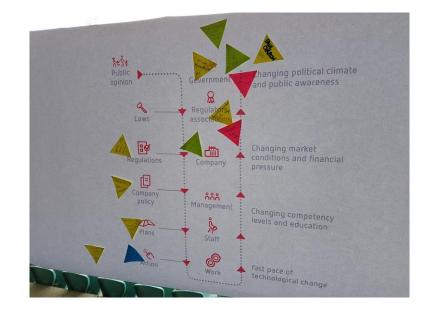


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#### **Connecting decision**makers, perspectives, uncertain futures



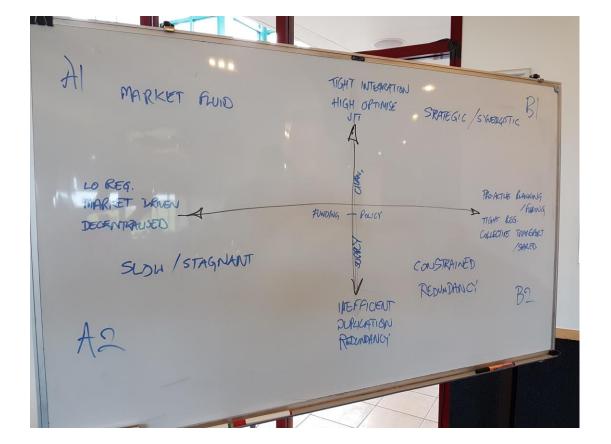
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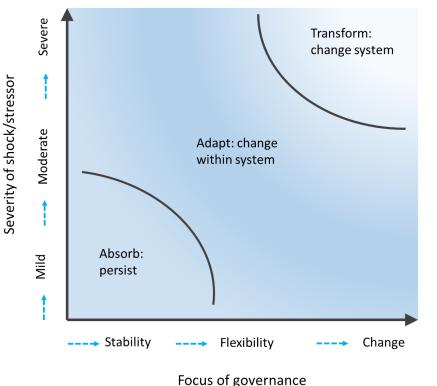
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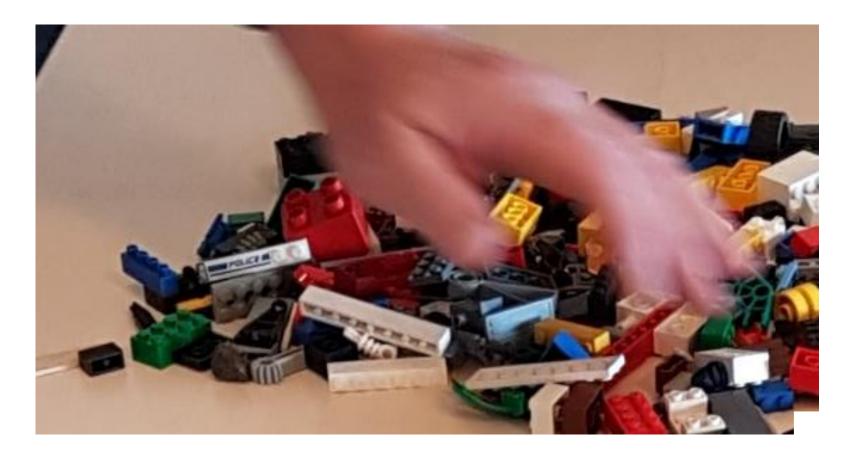
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#### Next: Stress testing, judging, back-casting across the network & the system



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