

Infrastructure Research Day

17 October 2019



New Zealand Governmen

Previous Research

Historically limited, sporadic, isolated

- Asset Management
 - Design Standards and Performance
 - E.g. RR366 Earthquake performance of long span arch culverts (2008)
- Hazard + Climate Change
 - National SH Assessment to 4 major hazard types (2016)
 - RR378 Climate change effects on the land transport network (2009)
- Assessment and Evaluation
 - RR614 Establishing the value of resilience (2017)
 - RR546 Measuring the resilience of transport infrastructure (2014)



NZ Transport Agency Eight Position Statements

POSITION STATEMENTS

TRANSPORT SAFETY

Our position is that it is unacceptable for anyone to be killed or seriously injured while travelling or working on the land transport system.

RESILIENCE

Our position is the resilience of the land transport system is increased by managing risks and long-term resilience challenges and helping communities quickly recover from disruptions.

INCLUSIVE ACCESS

Our position is that everyone should have fair and equitable access to the transport system.

ENVIRONMENT

Our position is that we will responsibly manage the land transport system's interaction with people, places and the environment.

LIVEABLE COMMUNITIES

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RAMEWORK

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EMERGING DRIVERS

NZTA.



STRATEGIC CONTEXT

Evolving our strategic approach



Collaborative

Proactive

Comprehensive



ART18/13 - Improving community resilience

Understanding and improving the complex (dependent and interinterdependent) relationships between transport and other critical infrastructure services (especially Lifelines Utility networks)



ART18/15 - Better measurement of direct and indirect costs and benefits of resilience

Identify and develop techniques and methods to value and monetise resilience including key factors, variables and matters for enhanced exante cost-benefit analysis.





Coastal Hazard Exposure Assessment

Quantification of inundation exposure of coastal SH and Rail lines for four sea level risk scenarios (per LGNZ study), and of assets within 50 m and 100 m of the coastal edge



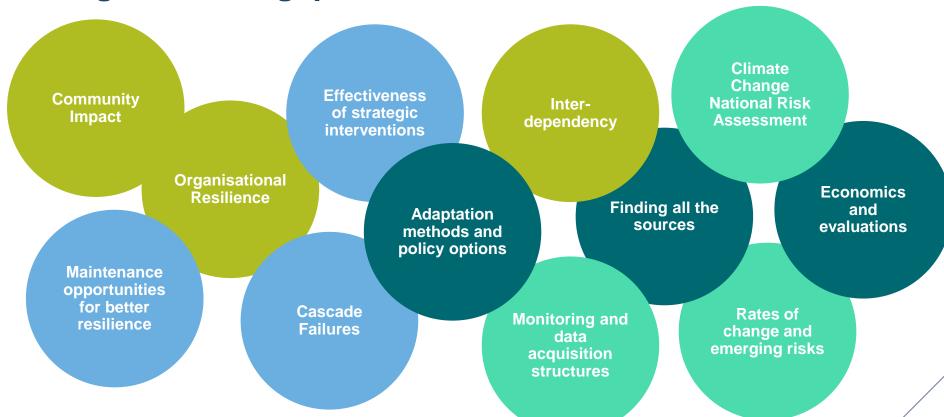
Community Pilots

Seeking to understand and explore how the Agency can help to develop and support resilient communities, through series of pilots with communities and partners





Going forward – gaps and ideas





Kia ora Thank you



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