

New Zealand Transport Agency Research

Infrastructure Research Day

17 October 2019

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)



Evolving our strategic approach



ART18/13 - Improving community resilience

Understanding and improving the complex (dependent and inter-dependent) 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 ex-ante 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

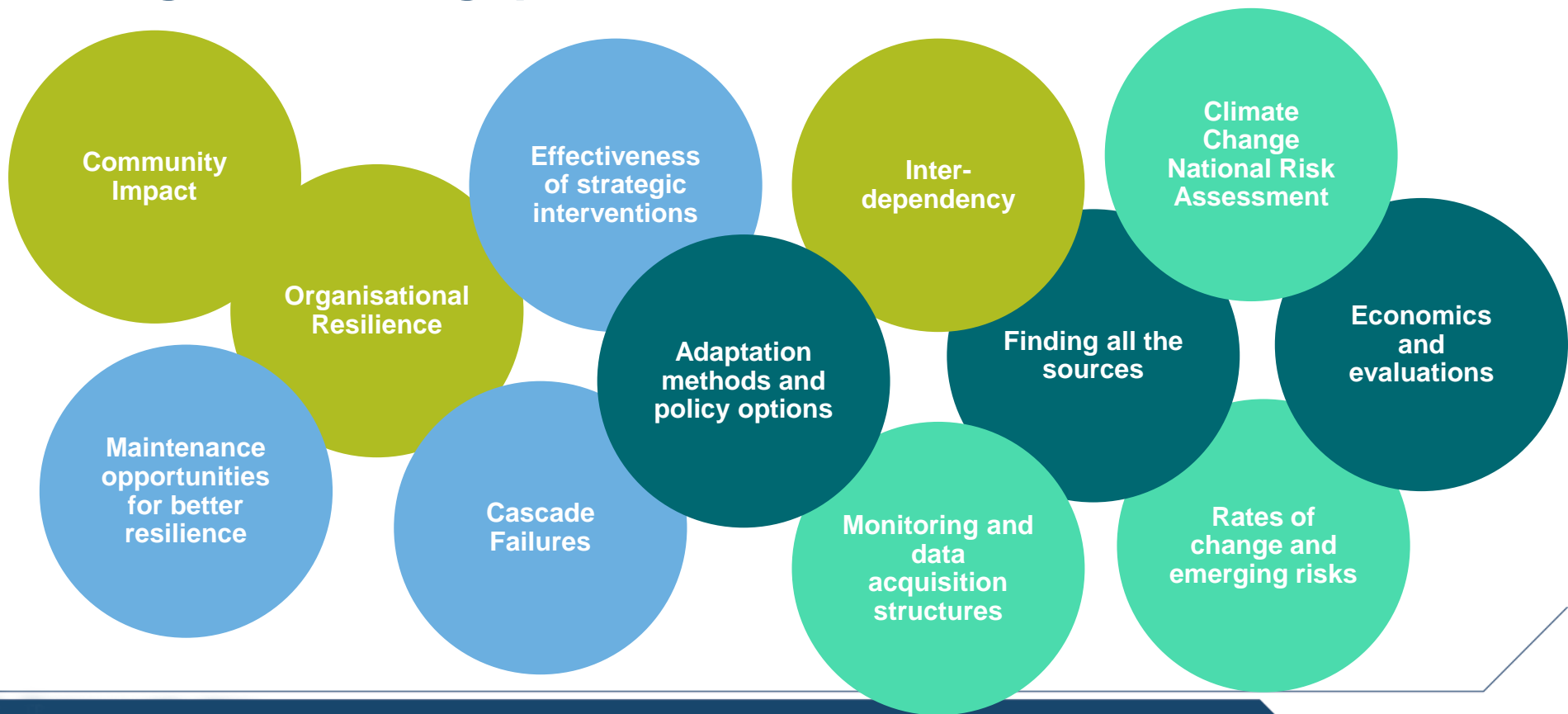


Community Pilots

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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