



Investing in Resilient Infrastructure

Presentation to the National Lifeline Utilities Forum

**Ross Copland, Chief Executive
Te Waihanga**

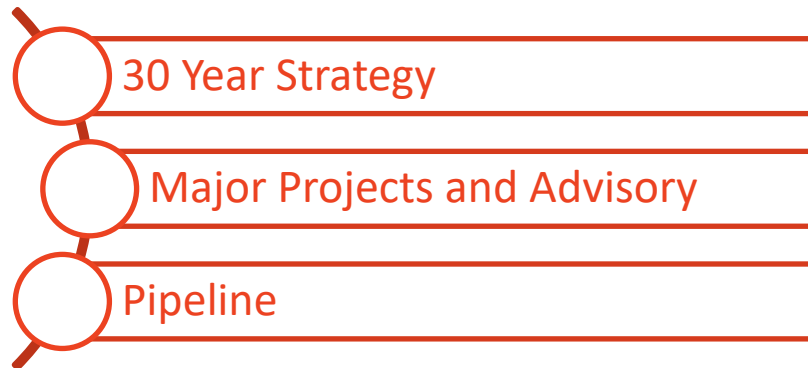
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Wednesday 21 October 2020

Te Waihanga | The New Zealand Infrastructure Commission



The reo Māori name for Infracom, Te Waihanga, means a cornerstone, or to make, create, develop, build, construct, generate.



30 Year Strategy Work Programme

**Sector
State of Play
reports**

**Asset Owners
Survey**

**Regional
Engagement**

**Cross-Cutting
Themes**

**Futures and
Foresight Work**

Chief Science Advisors Forum

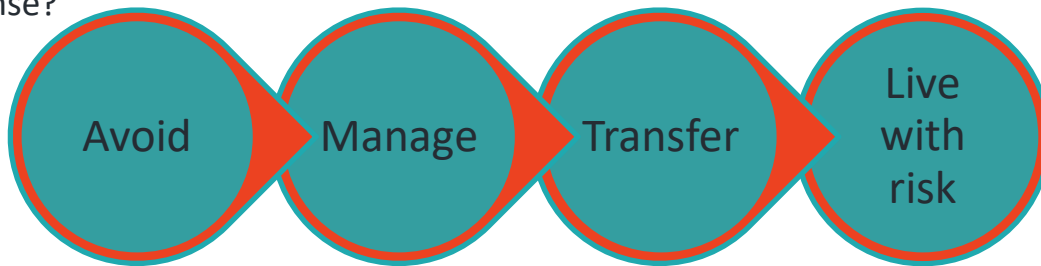
**Conferences and
Engagement**

Construction Clients Group;
River Managers Group; Lifeline Utilities Forum;
Building Nations; Water New Zealand;
Investment

Questions for Resilience Gurus

Do we have a resilience investment deficit?

- ***Investment in advance of disruption***: does investment in advance of disruption lead to better decisions and wellbeing outcomes?
- ***Defer resilience spending and build back better***: is deferring investment supported by economic models, but increasing risk beyond what's acceptable?
- ***Risk transfer***: what happens when we can't rely on traditional risk transfer? Should self insurance be formally built into the business case?
- ***Community-led resilience***: does best value for money lie in community resilience programmes and rapid response?



Questions for Resilience Gurus

Are post-event levels of service consistent?

- Nationally and between asset classes
- Can we “fail well”?
- How do we manage ability to pay?
- Should community tolerance to outage be at the heart of setting levels of service?
- Where does your community sit?



Assume service will be restored “she’ll be right”



No understanding – haven’t considered resilience at all



Limited understanding – perhaps considered 1 asset class i.e. store 7-days worth of potable water



Deep understanding of likely levels of service and restoration times

Questions for Resilience Gurus

What is the role of Distributed X?

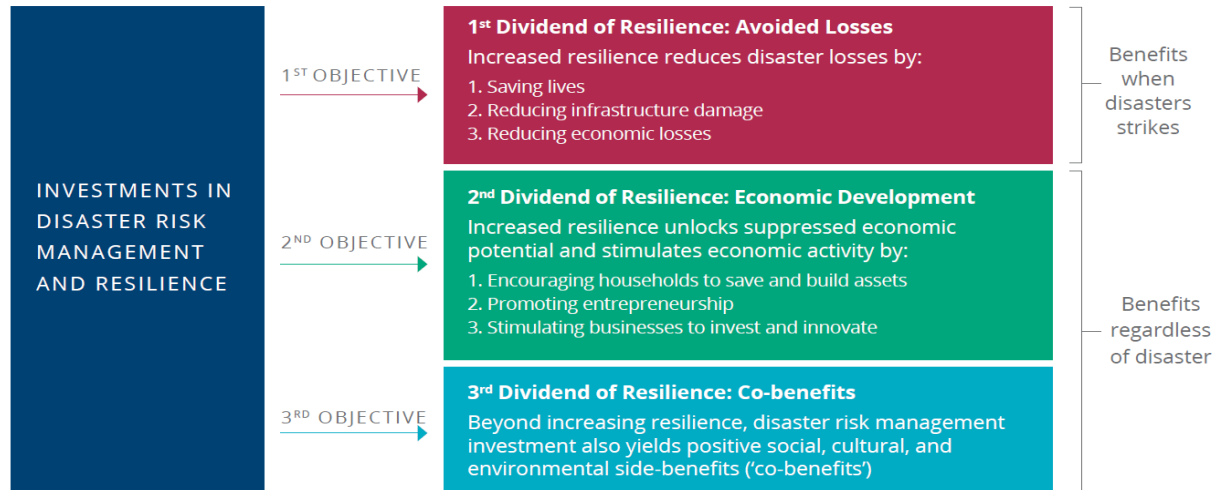
- Is resilience best created by decentralised versus horizontal infrastructure?
- Focus on services v assets
- Should we incentivise investment in self-reliance?



Questions for Resilience Gurus

How do we capture value?

- Can co-benefits help make the business case and unlock private and public investment?
- Should economic cycles be a trigger for resilience investment?



A decorative vertical pattern on the left side of the slide, consisting of stylized, overlapping teardrop and circular shapes in a light teal color, reminiscent of a traditional tea ceremony pattern.

Ma tini ma mano ka rapa te whai

"By many thousands, the work will be accomplished."