Toitū Te Whenua
Land Information
New Zealand

Resilience & Climate Change

Work programme overview

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Manager Resilience

9th November 2021

Our outcomes and challenge area

Resilience and climate change

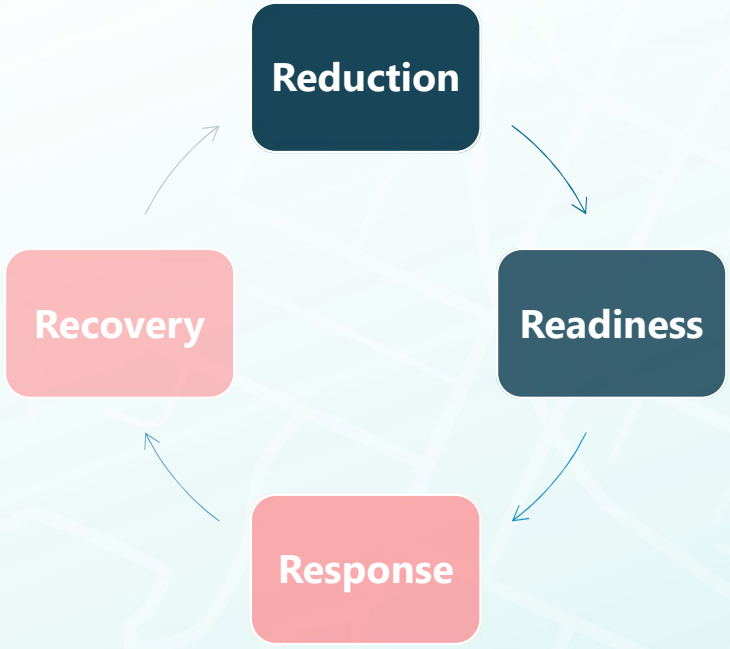
Support efforts to prepare for, mitigate and adapt to the impacts on land and sea of climate change and one-off events (natural and man-made).

Our Resilience & Climate Change work programme

- Key Data Improvements
- Enabling improved data access & use
- Emergency event support
- Cross-government and cross-sector support

Key datasets

Define “Resilience & Climate Change”



What data is important?

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Key datasets for resilience & climate change

Address
Buildings
Property
Population

Road Network
Rail Network

Elevation
Aerial Photography
Topographic Map
Coastline

River Network
Water Catchments

Stats NZ Tatauranga Aotearoa

NZ TRANSPORT AGENCY WAKA KOTAHI

KiwiRail

FIRE EMERGENCY NEW ZEALAND
WHAKARATONGA IWI

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NIWA Taihoro Nukurangi

Lead Agency	Stats NZ	LINZ	LINZ	FENZ	LINZ	NZTA	KiwiRail	NIWA	NIWA	LINZ	LINZ	LINZ	LINZ
As at 31 March 2021, does the lead agency provide the key dataset ...	Population	Building	Address	Suburb	Property	Road	Rail	River	Water Catchment	Aerial	Elevation	Coastline	Topo
as a complete national coverage	Yes	Partly	Partly	Yes	Yes	Partly	Yes	Partly	Partly	YES	Partly	Yes	Yes
with relevant attribution	Yes	Partly	Partly	Partly	Partly	Partly	Yes	No	YES	Yes	Yes	YES	n/a
at an adequate level of accuracy	Partly	Yes	Partly	Yes	Partly	Partly	Yes	Partly	Partly	Partly	Yes	YES	Yes
with an acceptable update programme	Partly	Partly	Partly	Partly	Yes	Partly	YES	Partly	Partly	Partly	No	Partly	Partly
with suitable vector topology	Yes	Yes	Yes	Partly	Partly	No	Yes	Yes	Yes	n/a	Yes	Yes	n/a
free of charge	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
with a Creative Commons License CC BY	Yes	Yes	Yes	YES	Yes	No	Yes	Yes	Yes	YES	Yes	Yes	Yes
for download in multiple formats	Yes	Yes	Yes	YES	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
as an OGC and Esri webservice	Yes	Yes	Yes	YES	Yes	No	Yes	Yes	Yes	Yes	Partly	Yes	Partly
with appropriate metadata	Yes	Yes	Yes	Yes	Yes	Partly	YES	Partly	Partly	Yes	Yes	Yes	Yes
discoverable on data.govt.nz	Partly	Yes	Yes	YES	Yes	Partly	Yes	Yes	Yes	Yes	Partly	Yes	Yes
ready to respond to an event	Partly	No	No	PARTLY	No	Partly	PARTLY	Partly	YES	Partly	Partly	PARTLY	No
recognised as the national single source of truth	Partly	Partly	Partly	PARTLY	Yes	No	Partly	Partly	Partly	Partly	Partly	PARTLY	Yes
Total as at 31 March 2021	81%	77%	73%	81%	81%	42%	92%	69%	81%	83%	73%	88%	82%

Improved acces & use

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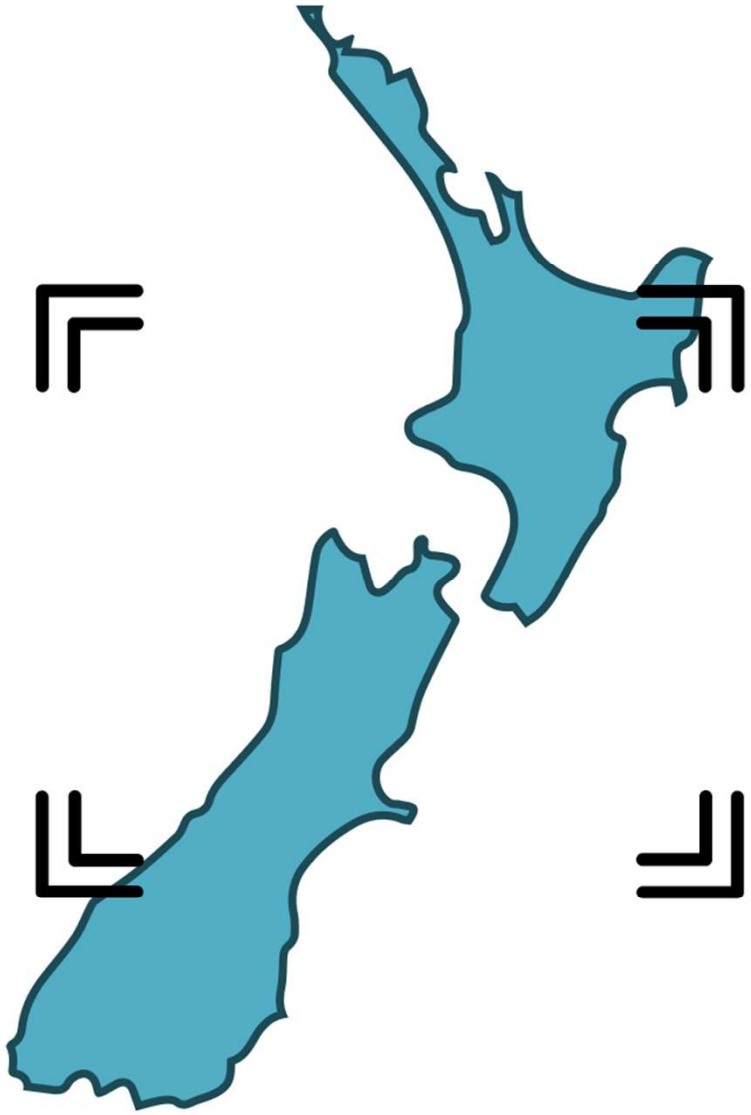
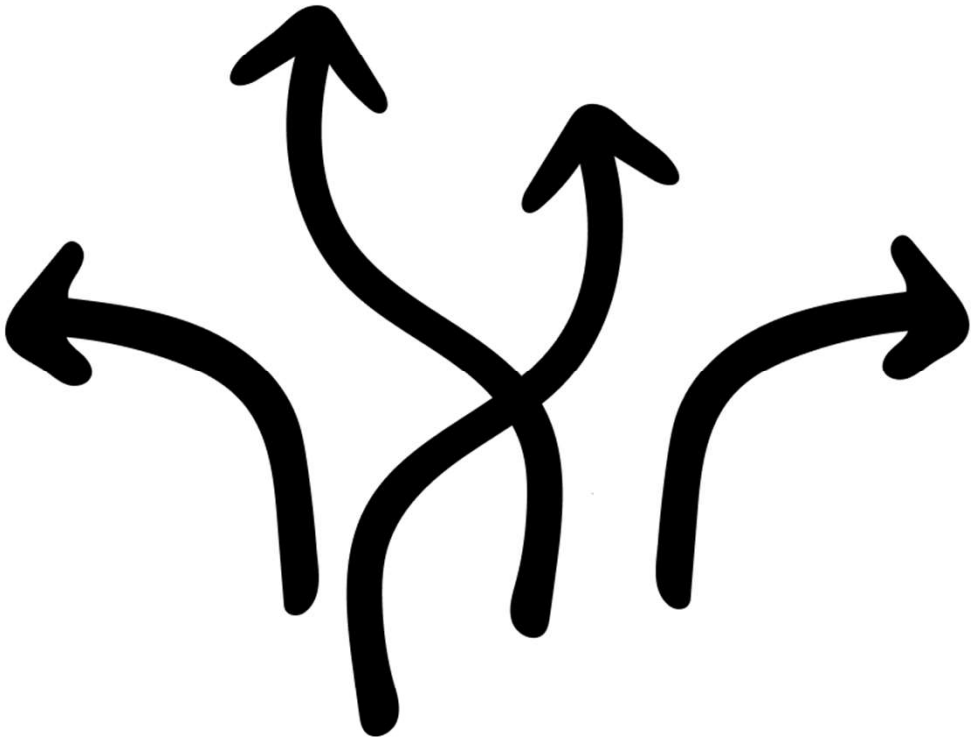
Building a picture

- Where is the danger?
- Who is affected?
- Which services are available?
- How can we best provide aid?
- How might the picture change?



Current setbacks

- Hard to find, analyse and act on
- Lose valuable time
- Duplicate effort
- Inconsistent practices

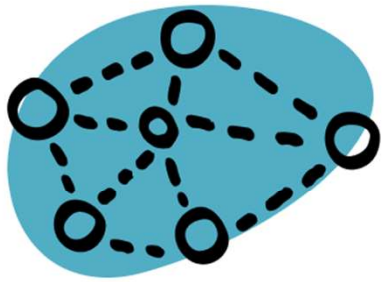


Our vision

Timely access to data

A single source of truth

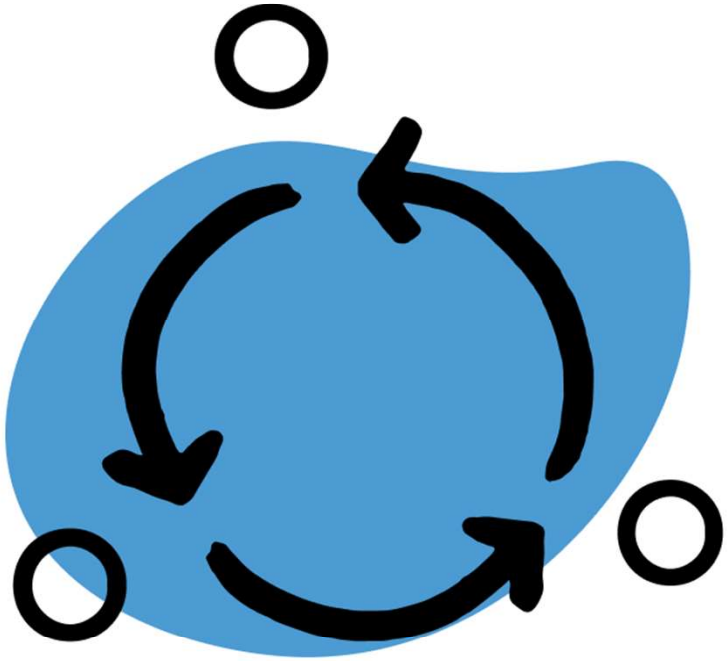
Find contextual information early

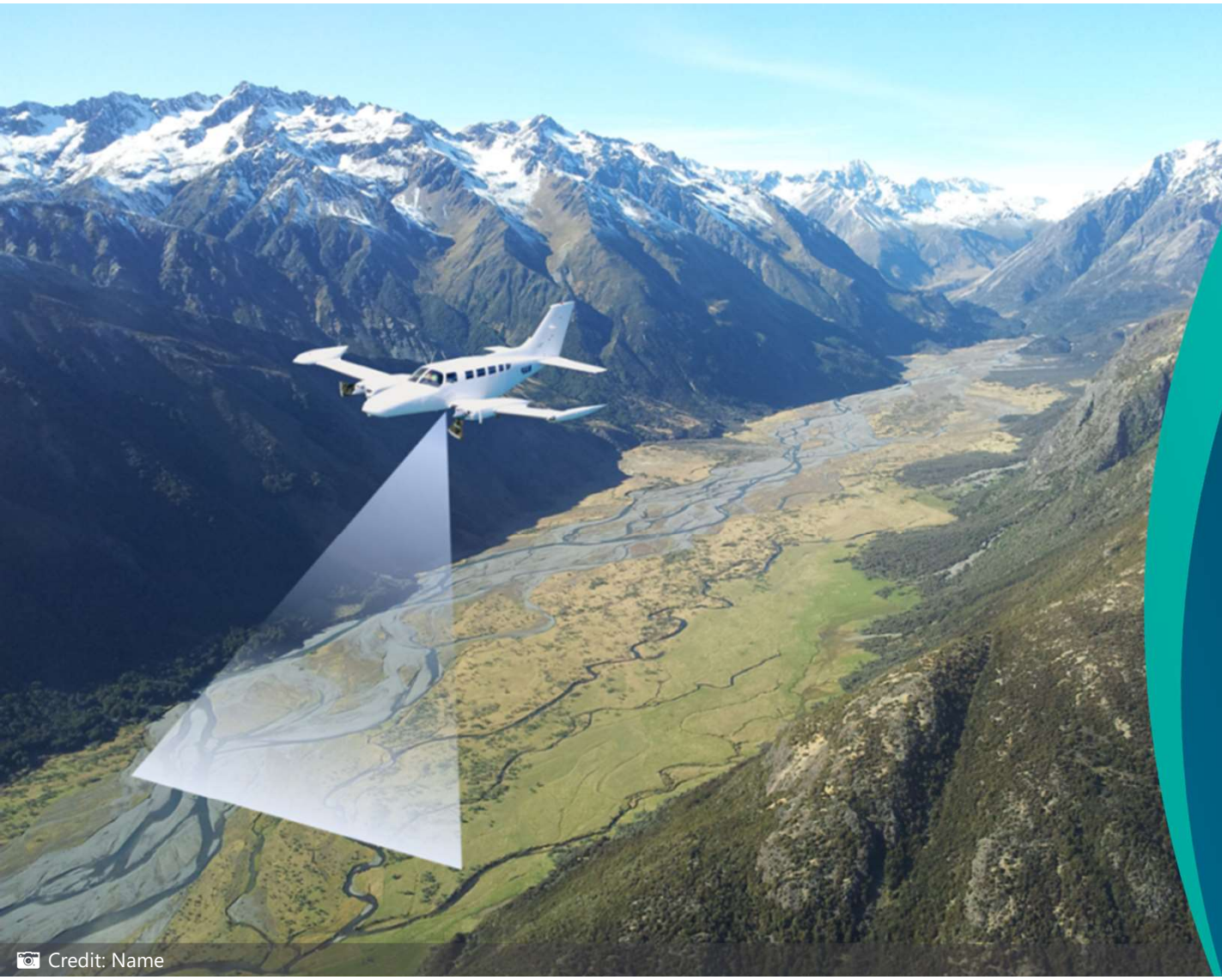


Share information

Key stakeholders

- Police
- FENZ
- Stats NZ
- Defence Force
- Ngāi Tahu
- Environment Canterbury





Response support

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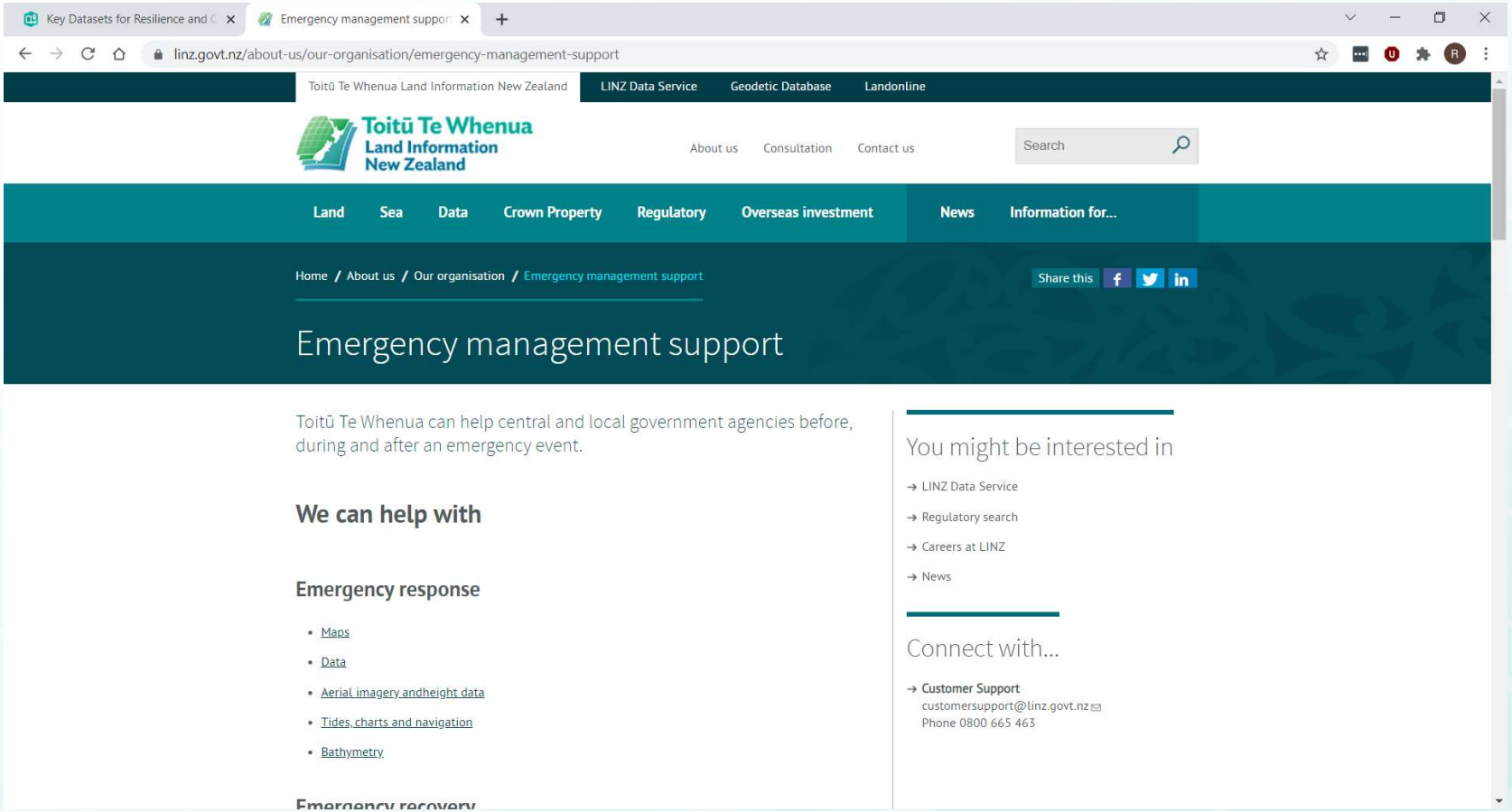
Emergency response support



https://www.linz.govt.nz/data/linz-data/resilience-and-climate-change

What next?

Our Resilience & Climate Change work programme

- Key Data Improvements – ongoing work programme agreed with key users and providers
- Enabling improved data access & use – proof-of-concept for providing "Common Operational Datasets"
- Emergency event support – ongoing process improvement, service development, training & exercises

Thank you!

We'd love to hear from you:

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