

#### **Table of contents**

Introduction, objectives and methodology	3
Summary of key findings	5
How prepared are New Zealanders?	11
Do New Zealanders know what to do in an emergency?	18
Barriers	24
Triggers	40
Communications	46
ShakeOut and TsunamiWalkOut	49
Information sources	53
Ensuring resilient communities	56
What do people think when they think 'disaster'?	58
Appendix	61



## Introduction, objectives and methodology







#### **Introduction & Objectives**

The National Emergency Management Agency commissioned this research to understand the state of preparedness for a disaster amongst individuals and households in New Zealand.

The specific objectives of the research were to:

- Identify the level of preparedness amongst New Zealanders and their households. In particular if they've taken any steps to prepare or plan for emergencies in the last 12 months.
- Determine if New Zealanders know what actions to take during or following an earthquake or other disaster, particularly if they are near the coast.
- Find out the awareness and participation in ShakeOut and the TsunamiWalkOut.

#### Methodology



In total, 1,001 telephone interviews were carried out, with New Zealanders aged 15 and over, from 4 June to 26 July, 2020.

Half of the interviews were conducted by calling landline telephones (501 interviews) and half were conducted by calling mobile telephones (500 interviews). Prior to 2019 all interviews were conducted by calling landlines.

The maximum margin of error is +/- 3.1 percentage points at the 95% confidence level (for a simple random sample).

The overall results have been weighted to 2018 Census figures to align the data with Census counts for age and gender.

Notes for reading the report: Throughout the report the term 'New Zealanders' is used to refer to those 15 and over who currently live in New Zealand.

## Summary of key findings



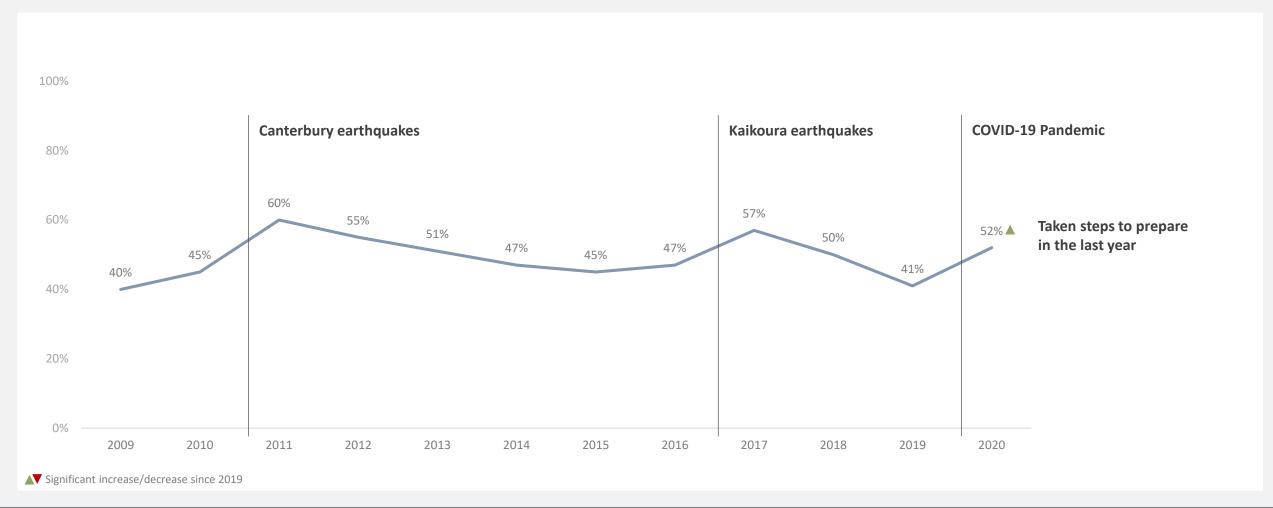




#### Actions taken to prepare in the last year



The number of New Zealanders who've taken steps to prepare themselves or their household for a disaster has risen in 2020. As shown in the chart below, major events provide a strong catalyst.



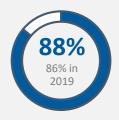


#### **Level of preparedness**

Level of preparedness

Nearly nine in ten New Zealanders have taken at least one action to be prepared for an emergency – they're most likely to have emergency supplies available, such as spare food, toilet paper, torch, spare batteries, etc. A quarter of New Zealanders are fully prepared at home.

#### Done at least one action\*



Household discussed or planned what to do in a disaster\*, and/or

Have stored at least 9 litres of water for each household member\*, and/or

Have emergency supplies, e.g., spare food, toilet paper, torch, spare batteries etc\*, and/or

Have a getaway bag with emergency items\*

#### Prepared at home\*



Household discussed or planned what to do in a disaster\*, and

Have stored at least 9 litres of water for each household member\*, and

Have emergency supplies, e.g., spare food, toilet paper, torch, spare batteries etc\*, and

Check emergency survival items at least once a year  $\!\!\!\!^*$ 

#### **Likelihood to Prepare**

2020

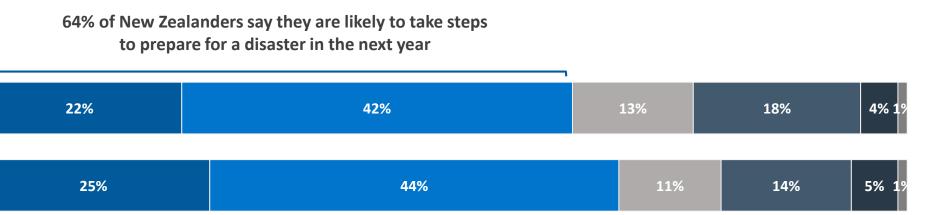
2019



New Zealanders have strong intentions to improve their level of preparedness over the next year.

Quite likely

■ Very likely



■ Neither

■ Quite unlikely

■ Very unlikely

■ Don't know



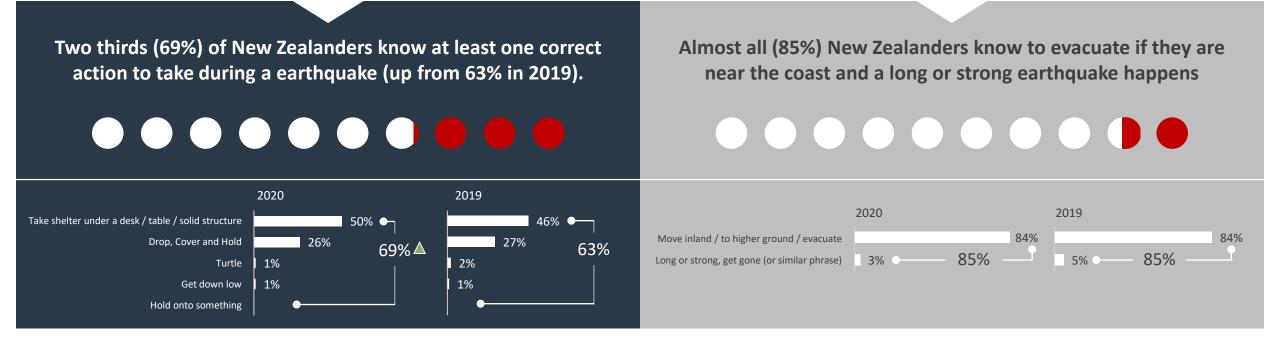
#### Knowledge



Most New Zealanders continue to know what actions they should take in the event of an earthquake or a tsunami.









▲▼ Significant increase/decrease since 2019

#### **Barriers and triggers to preparing**

The research explored the incidence and impact of seven barriers to preparedness. When we assessed the incidence of each barrier (% of who have the barrier) by its impact (strength of its effect) one barrier was determined to be of high priority to address and a further two barriers were determined to be secondary priorities.

We also explored the incidence and impact of three triggers. Two were determined to be effective motivators to get people to act.

### riority oarrier



#### Lack of knowledge (affects 30%, high impact)

Lack of knowledge on how to prepare is a significant barrier for many New Zealanders.

Those who say they know little or nothing about preparing for a disaster tend to have five key knowledge gaps, they:

- 1) have a reduced understanding of what the effects would be if a disaster struck in their area,
- 2) have a reduced understanding of the types of disasters that could occur in New Zealand, and the chances of them occurring,
- 3) are less likely than average to know to drop, cover, hold during an earthquake,
- 4) are less likely than average to know to evacuate after a long or strong earthquake (if they are near the coast), and
- 5) are less likely than average to know they can utilise Civil Defence resources before a disaster.

# Secondary barriers



#### Likelihood of event (affects 43%, medium impact)

• New Zealanders who do not think about what disasters could occur in their area are much less likely to prepare



#### **Optimism (affects 18%, high impact)**

 Believing it's unlikely they will ever be involved in a disaster prevents many New Zealanders from being prepared

# Effective triggers to encourage preparation



# Social norm – what friends and family think (impacts 68%, high effect)

 New Zealanders are more likely to take action to get prepared themselves if they perceive that their friends and family think it's important to be prepared



# Family concern (impacts 50%, medium effect)

 Thinking about what will happen to their family in a disaster is a relatively powerful trigger for motivating New Zealanders to prepare for a disaster



# How prepared are New Zealanders?

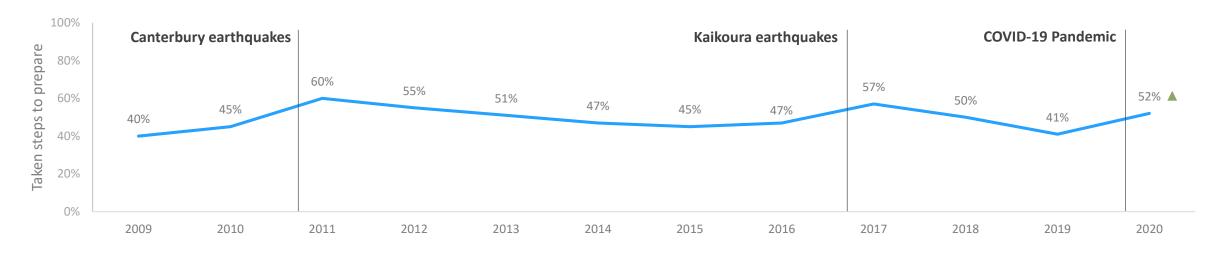




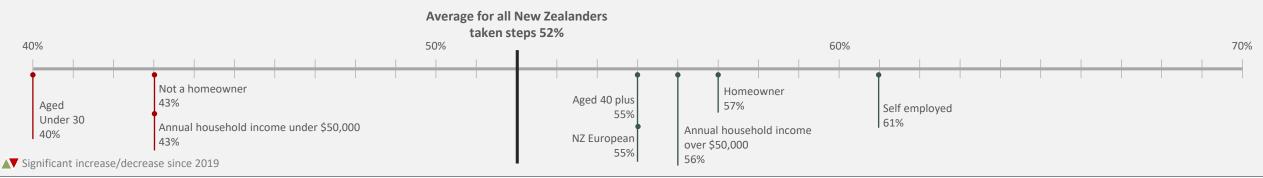


#### Taken steps to prepare in the last year

New Zealanders are optimistic about their preparedness levels. This year, more than half say they have taken steps to prepare themselves or their household for a disaster in the past twelve months. This is a significant improvement from the 41% who reported having taken action in the 2019 survey.



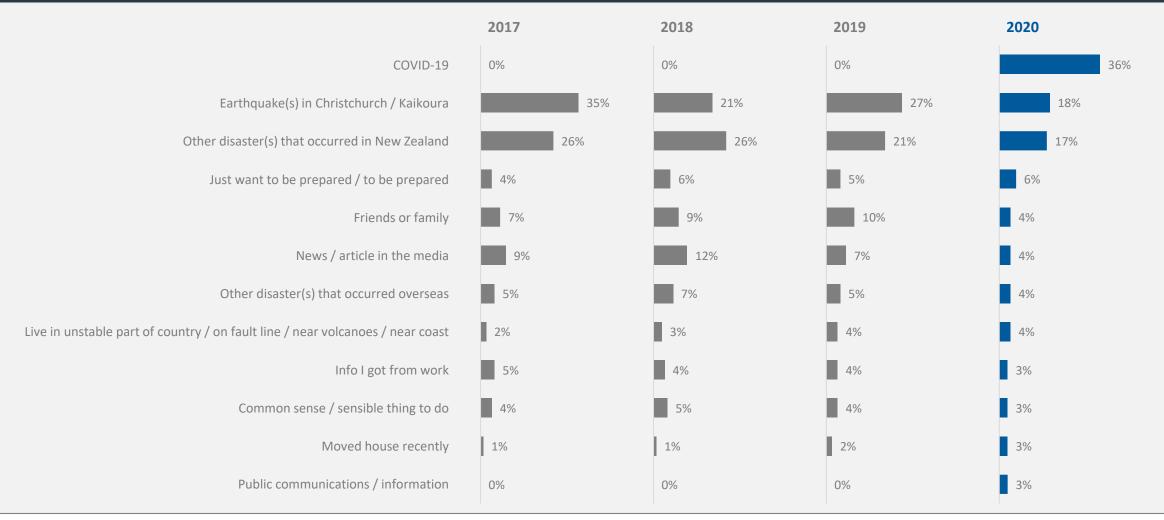
The following groups are less likely than average to have taken steps to prepare for a disaster in the past twelve months: younger New Zealanders (aged under 30), those who do not own their own home and those who have a lower annual household income (under \$50,000).





#### Perceived prompts to take action

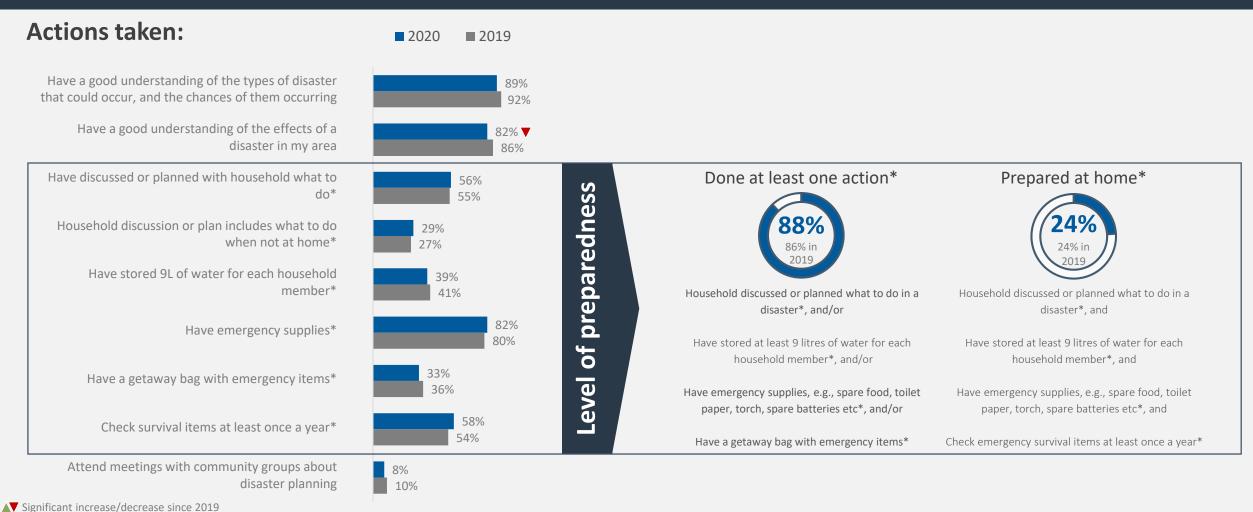
When asked what prompted these actions, more than a third attributed their actions to the COVID-19 pandemic.





#### **Total level of preparedness**

However, when we measured specific actions taken, this increased level of preparedness was not observable and findings were broadly consistent with 2019. One area of change is understanding, fewer New Zealanders now say they have a good understanding of what the effects would be from a disaster in their area.





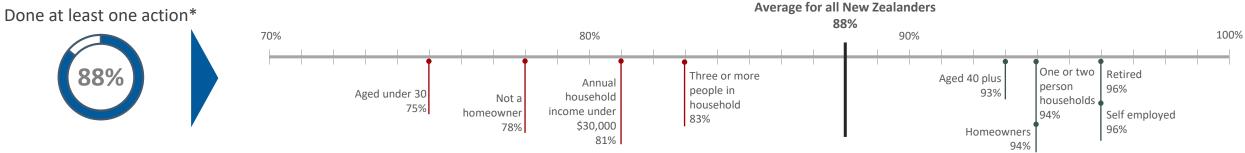
Source: Q2e Which of the following statements apply to you? | Q2f Does your household emergency plan or discussion include what to do when you are <u>not</u> at home?

Base: All respondents (2019 n=1,031; 2020 n=1,001) Note: Preparedness levels are not mutually exclusive.

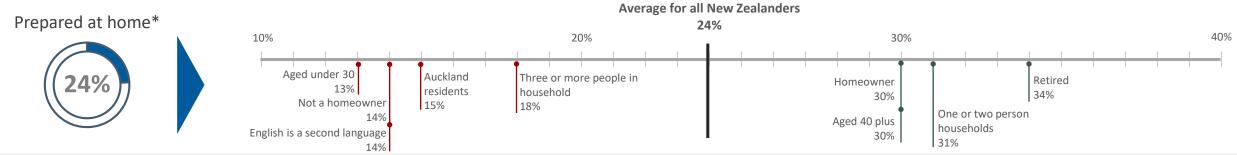
#### Who is least likely to be prepared?

Younger New Zealanders, those who do not own their own home, those with a lower household income, and those who live in larger households are least likely to have done at least one action to prepare themselves or their household for a disaster.

The following groups are less likely than average to have done at least one action for preparedness: younger New Zealanders, those who are not homeowners, those who have a lower annual household income, and those who live in larger households.



The following groups are less likely than average to be prepared at home: younger New Zealanders, those who are not homeowners, those who speak English as a second language, Auckland residents, and those who live in larger households.





#### Likelihood of preparing

Just under two-thirds of New Zealanders say they are likely to take action, or further action, to prepare for a disaster in the next twelve months.

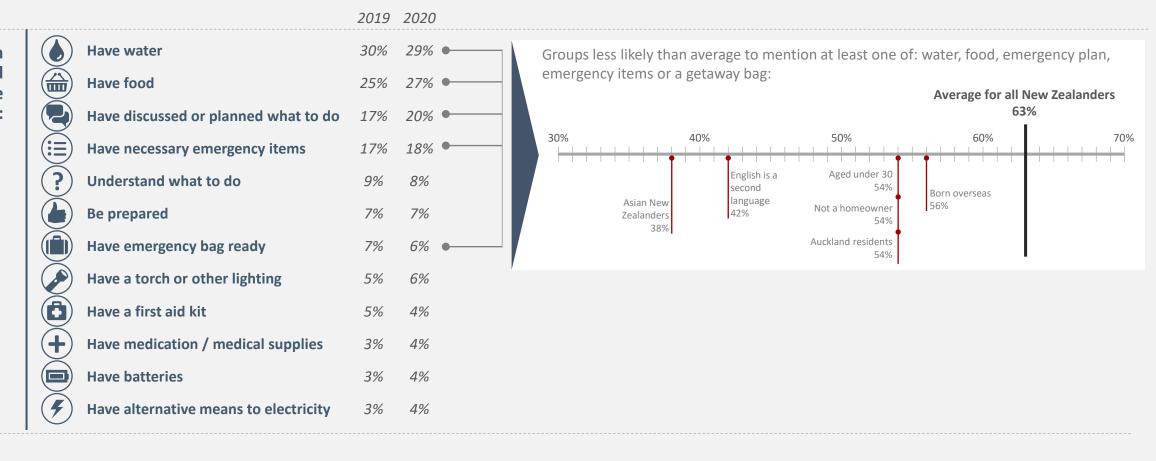
Q. How likely or unlikely are you to take [further] steps to prepare for a disaster in the next twelve months? Likely to Unlikely to prepare prepare 2020 22% 42% 13% 18% 4% 1 64% 22% 2019 25% 44% 14% 5% 11% 68% 19% Neither likely Quite likely Quite unlikely Very unlikely Very likely Don't know nor unlikely



#### Top 10 things to do to be prepared

New Zealanders believe the most important things they can do to prepare for a disaster are to have stored food and water, and discussed a household emergency plan.

Top ten perceived actions to be prepared:



# Do New Zealanders know what to do in an emergency?



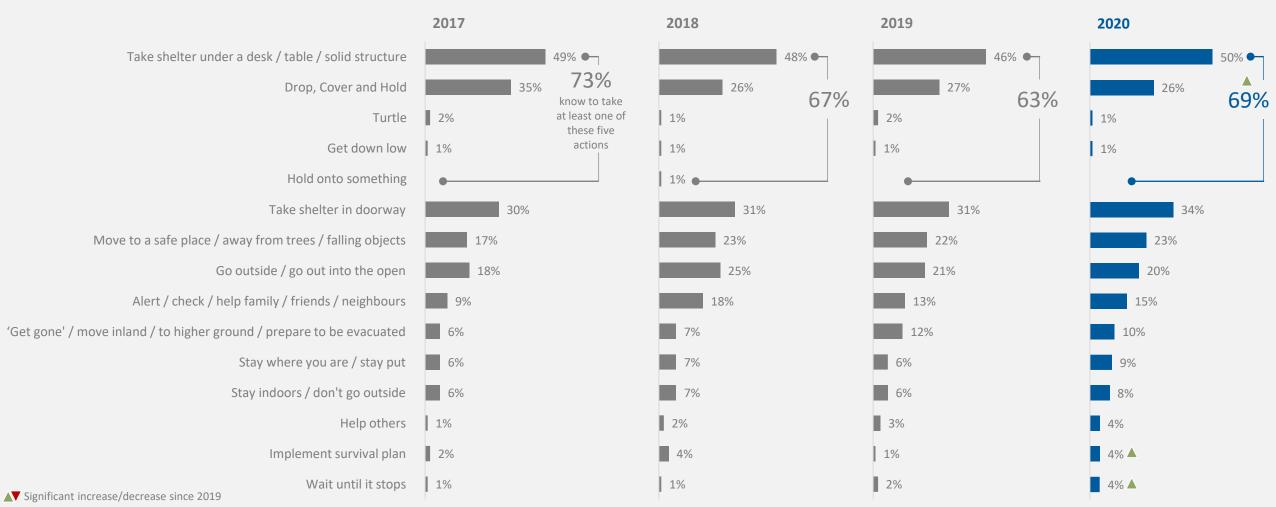




#### Actions to take during a strong earthquake



Sixty-nine percent of New Zealanders now know what to do during a strong earthquake. This is a significant improvement from the 2019 finding of sixty-three percent.

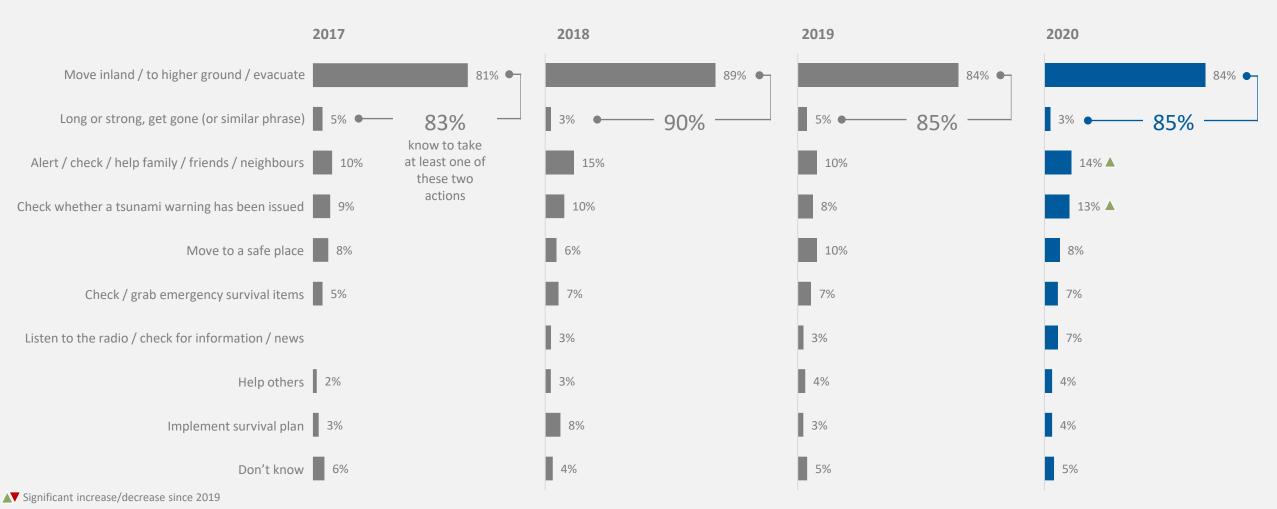




#### Actions to take when near the coast and a long or strong earthquake happens



Most New Zealanders know they need to 'Get Gone' if they are near the coast and a long or strong earthquake happens.



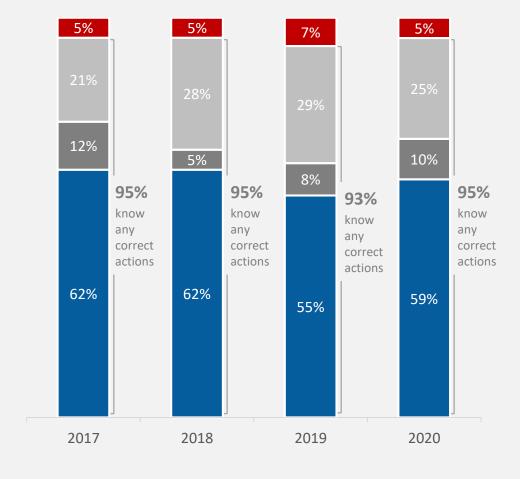


#### Knowledge that will keep New Zealanders safe during and following a strong earthquake

Just over half of New Zealanders know what to do during an earthquake and know what to do following a long or strong earthquake.



- Know at least one correct action to take during a tsunami threat but don't know a correct action to take during an earthquake
- Know at least one correct action to take during an earthquake but don't know a correct action to take during a tsunami threat
- Know at least one correct action to take during an earthquake and at least one correct action to take during a tsunami threat

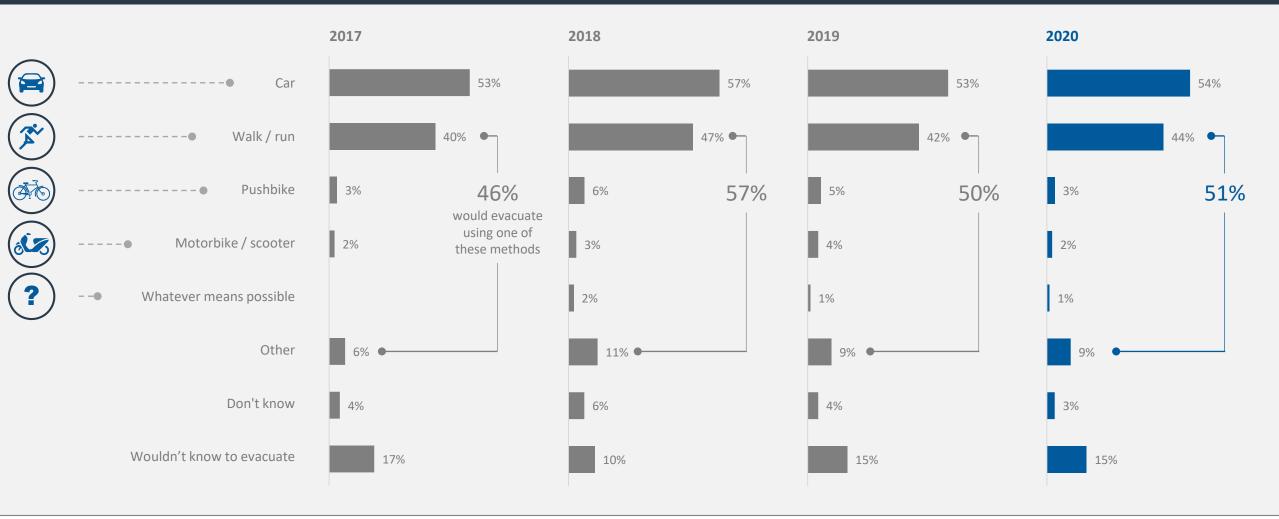




#### **Planned evacuation methods**

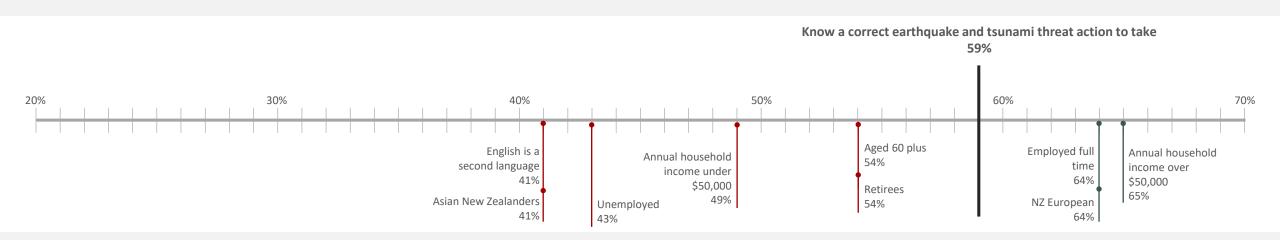


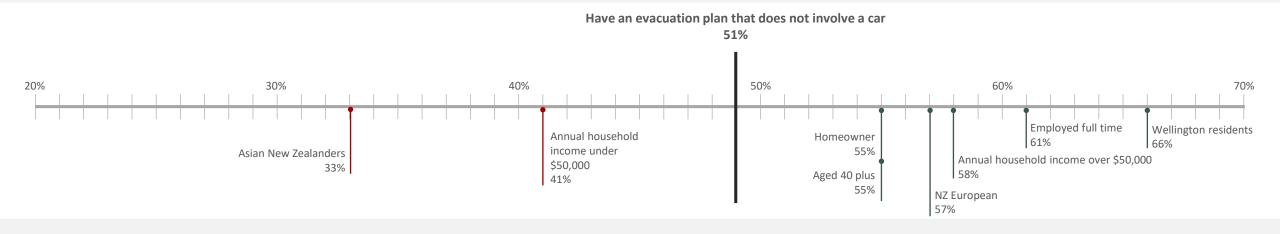
Half of New Zealanders say they would evacuate using a method other than a car.



#### Who is least likely to know what to do?

New Zealanders who speak English as a second language, Asian New Zealanders, those who are unemployed, those with a lower household income, those aged over 60, and retirees are least likely to know both the correct earthquake actions and the correct tsunami actions.







## BARRIERS





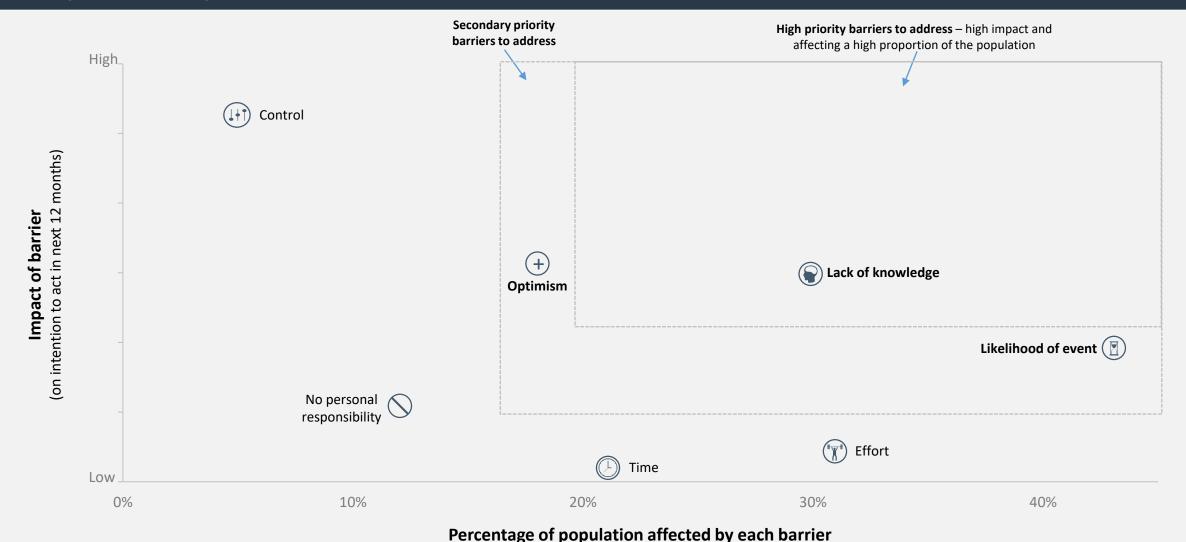


#### The research specifically explored the incidence and impact of seven barriers to preparedness

	Lack of knowledge	How much, if anything do you know about preparing for a disaster? (Q2a)
Barriers	Likelihood of event	I don't often think about what disasters could happen in my area (Q6a_2)
	+ Optimism	It's unlikely I'll ever be in a disaster (Q6a_9)
	Effort	How easy or difficult do you think it is to prepare for a disaster? (Q2c)
	(if) Control	What I do now will help to keep me and my household safe during a disaster (Q6a_7)
	No personal responsibility	People will be there to help following a disaster, so I don't really need to prepare in advance (Q6a_1)
	① Time	There will always be adequate warning before a disaster strikes (Q6a_3)



When we assessed the incidence of each barrier (% of population who have a barrier) by their impact (strength of its effect on likelihood to prepare) three barriers stood out as priorities to address: lack of knowledge about what to do to prepare, complacency when it comes to knowing what disasters could happen in their area, and the belief that they will probably never experience a disaster first hand.





# Primary and secondary barriers to address





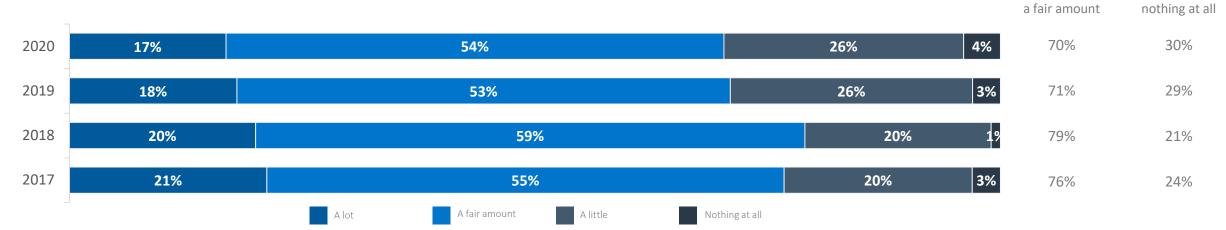


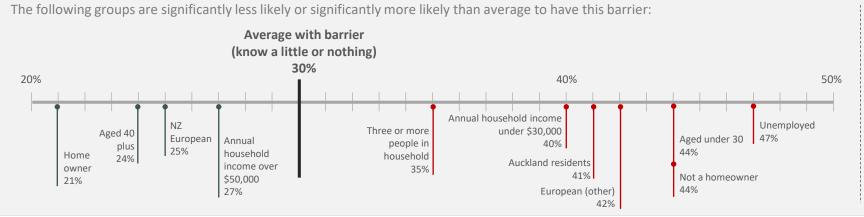


#### Lack of knowledge – primary barrier

Nearly a third of all New Zealanders know little or nothing about preparing for a disaster, for these people this is a huge barrier to getting prepared.







Those who know little or nothing about preparing for a disaster are less likely to have:



A getaway

bag



Stored

sufficient

water



Know a lot or



The necessary emergency

supplies

Discussed or planned with household what to do in a disaster

Know a little or

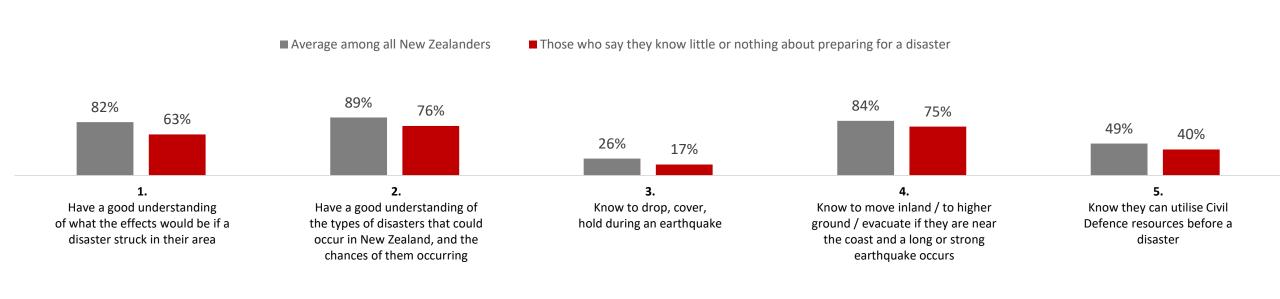




#### Lack of knowledge – primary barrier, cont.

Knowledge gaps among those who feel they lack knowledge.

Those who say they know little or nothing about preparing for a disaster have five key knowledge gaps (when compared to the average among all New Zealanders). Helping New Zealanders improve their knowledge in these areas is likely to have a positive impact on their overall disaster preparation knowledge, which in turn may empower them to become more prepared\*.

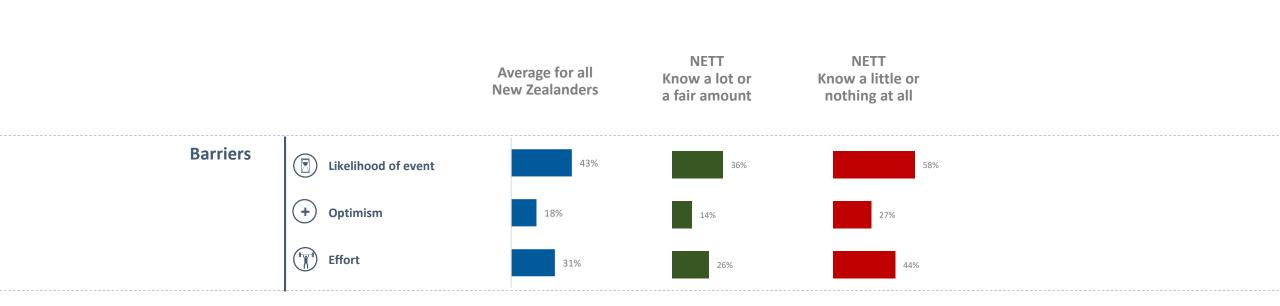






#### Lack of knowledge – primary barrier, cont.

Those who feel they lack knowledge are also more likely than average to be impacted by three of the other barriers: Likelihood of event, optimism and effort.



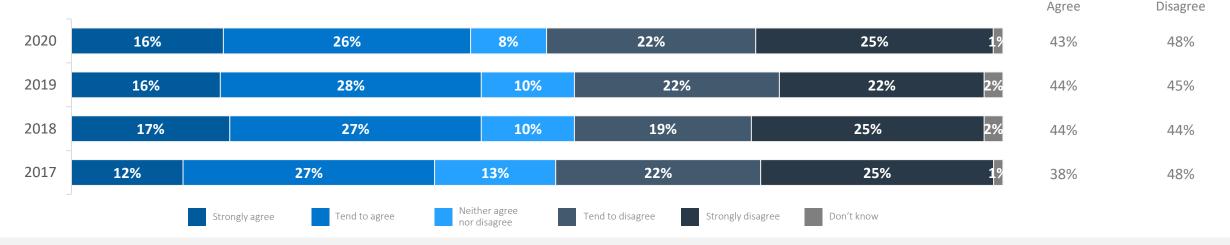




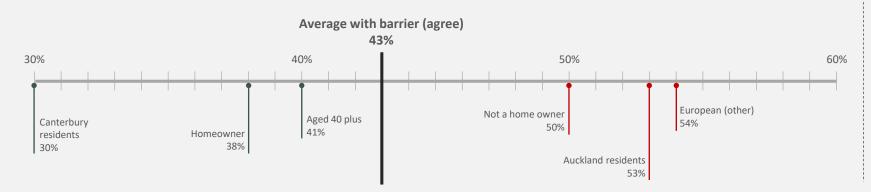
#### **Likelihood of event – secondary barrier**

This barrier impacts a large proportion of the New Zealand population. Nearly half of New Zealanders don't often think about what disasters could happen in their area.

#### Q. I don't often think about what disasters could happen in my area



The following groups are significantly less likely or significantly more likely than average to have this barrier:



Those who don't often think about what disasters could happen in their area are less likely to have:



A getaway

bag



Stored

sufficient

water



The ne

Disco

The necessary emergency supplies

Discussed or planned with household what to do in a disaster

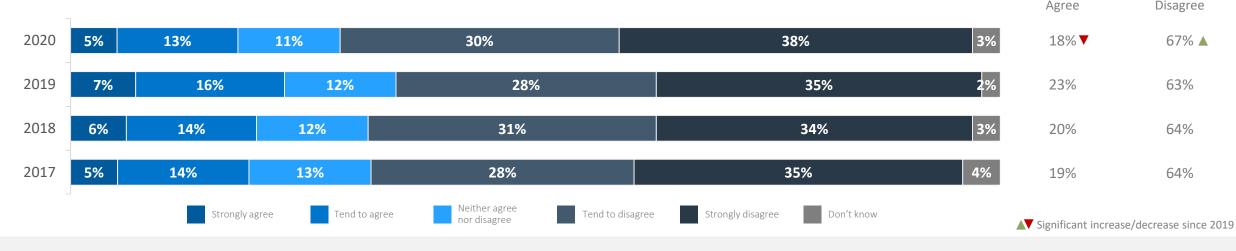




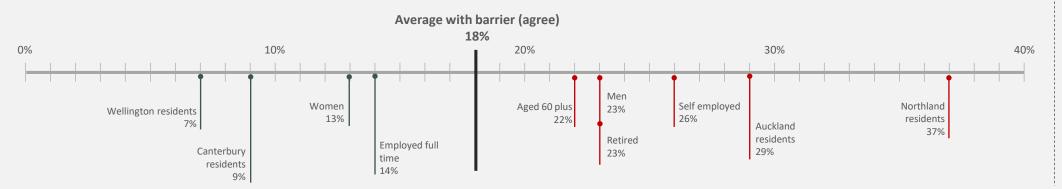
#### Optimism – secondary barrier

This year fewer New Zealanders think it's unlikely they will ever be in a disaster (18%, down from 23% in 2019). However, among these New Zealanders this false sense of security is a strong barrier preventing them from becoming prepared.

#### Q. It's unlikely I'll ever be in a disaster



The following groups are significantly less likely or significantly more likely than average to have this barrier:



Those who think its unlikely they will ever be in a disaster are less likely to have:



Discussed or planned with household what to do in a disaster



## Lower priority barriers



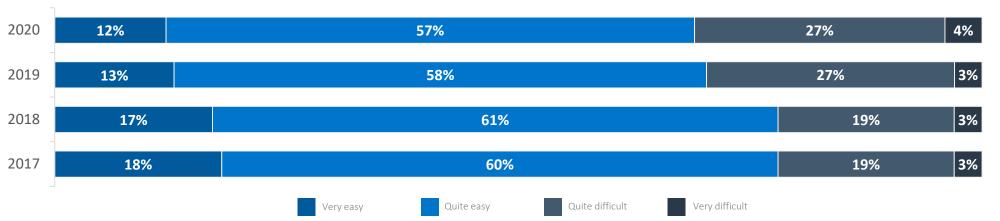






A third of New Zealanders feel it is difficult to prepare for a disaster.

#### Q. How easy or difficult do you think it is to prepare for a disaster?



Easy to prepare Difficult to prepare 69% 31% 29% 78% 22% 77% 23%

The following groups are significantly less likely or significantly more likely than average to have this barrier:



Those who think it is difficult to prepare for a disaster are less likely to have:



Stored sufficient water



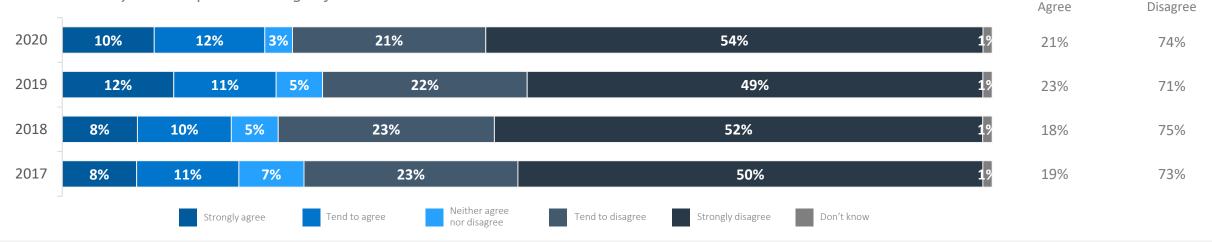
Discussed or planned with household what to do in a disaster



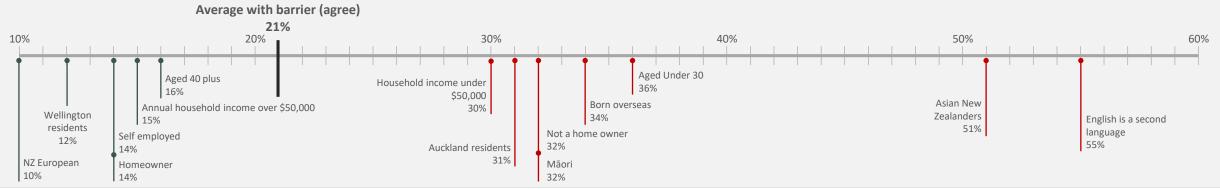


One in five New Zealanders believe there will always be adequate warning before a disaster strikes.

#### Q. There will always be adequate warning before a disaster strikes



The following groups are significantly less likely or significantly more likely than average to have this barrier:



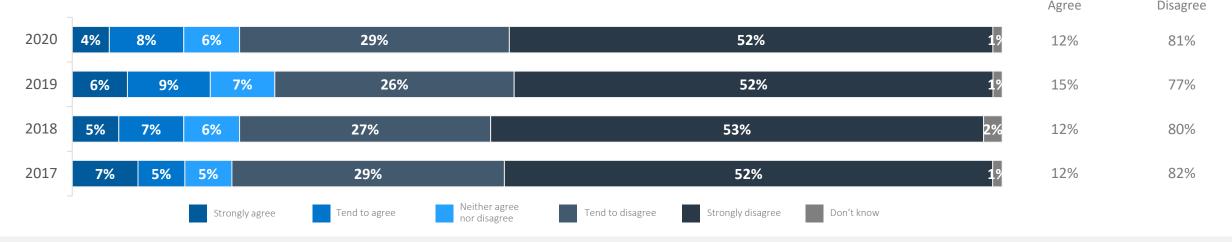




#### No personal responsibility

Twelve percent of the New Zealand population believe others will be there to help them following a disaster so they don't really need to prepare now.

#### Q. People will be there to help following a disaster, so I don't really need to prepare in advance



The following groups are significantly less likely or significantly more likely than average to have this barrier:

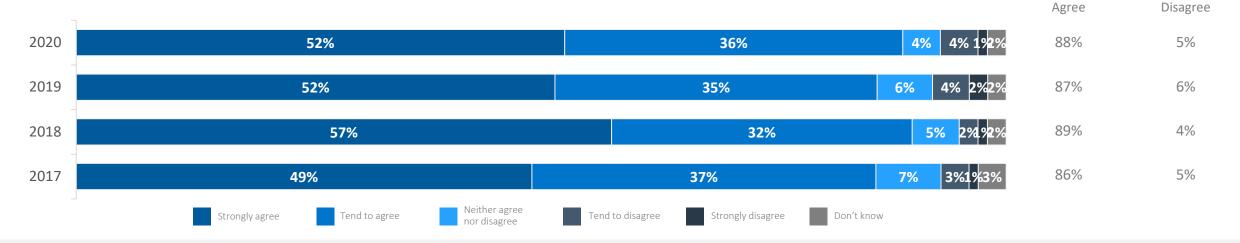




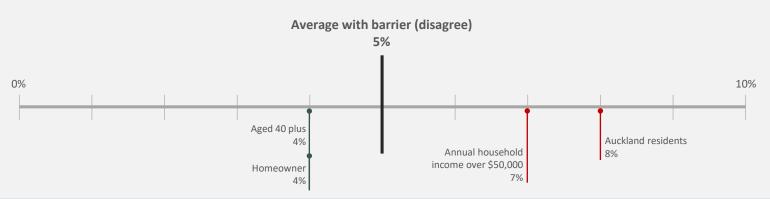
# Control

Just five percent of New Zealanders believe prior preparation will not keep themselves and their household safe in a disaster. However, for those who have this barrier it has a large impact on their likelihood to prepare.

### Q. What I do now will help to keep me and my household safe during a disaster



The following groups are significantly less likely or significantly more likely than average to have this barrier:



Those who don't believe what they do now will keep themselves and their household safe during a disaster are less likely to have:



Stored sufficient water



The necessary emergency supplies



Discussed or planned with household what to do in a disaster



# Greatest barriers for those most at risk







The most at risk groups (i.e. the most under-prepared groups) have similar barriers to the overall population. However, lack of knowledge, time, and effort tend to be significantly larger barriers for these groups.





## TRIGGERS







### The research also explored the incidence and impact of three triggers to get people to act

**Triggers** 



**Social norm** 



Family concern



Family responsibility

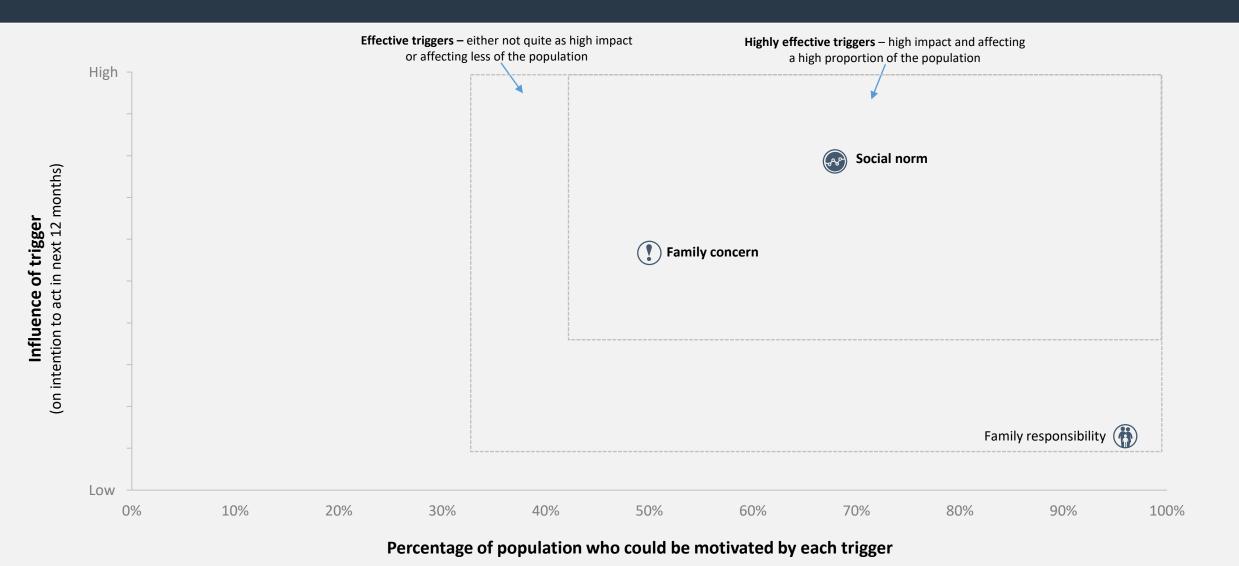
My friends and family think it's very important to be prepared for a disaster (Q6a\_6)

I often worry about what might happen to me or my family if there's a disaster (Q6a\_8)

It is my responsibility to look after myself and my family in a disaster (Q6a\_4)



## Of the three triggers, two stand out as being particularly effective: 1) friends and family thinking its important to be prepared and, 2) concern about what will happen to them and their family in a disaster

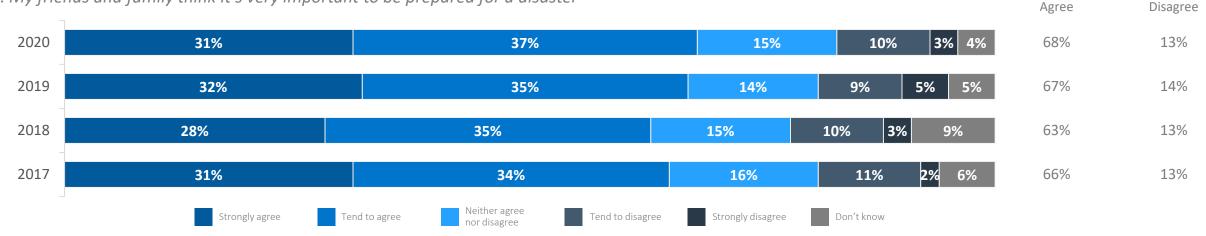




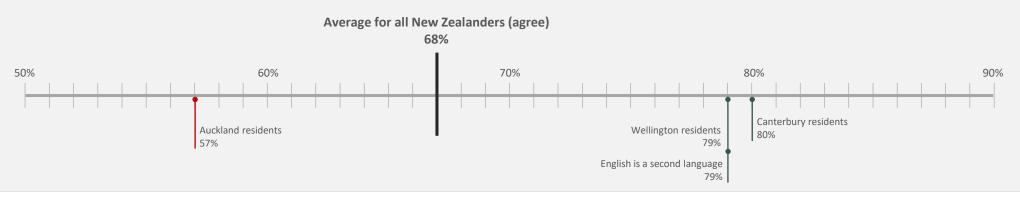
# Social norm

What friends and family think has a big impact on how likely New Zealanders are to prepare for a disaster. New Zealanders who speak English as a second language are particularly likely to say their friends and family think it's important, which may be effective motivator to use to get this group prepared for a disaster.





The following groups are significantly less likely or significantly more likely than average to be triggered by this social norm:

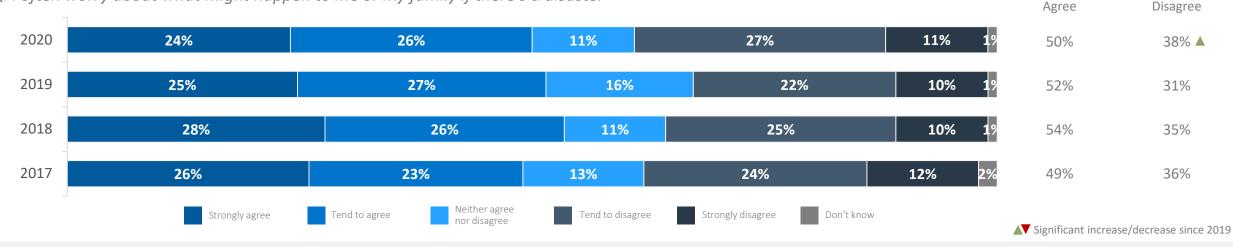




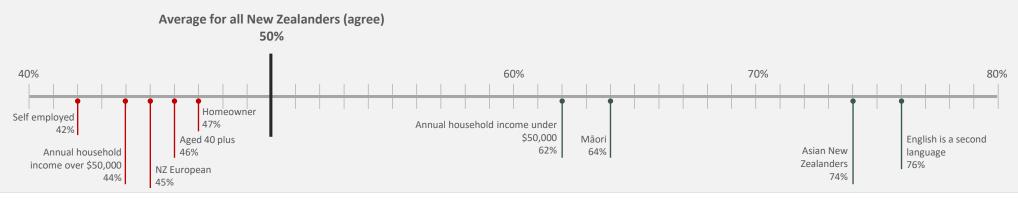
# • Family concern

Concern for family is another strong trigger. New Zealanders who speak English as a second language and Asian New Zealanders are particularly likely to worry about what might happen to themselves and their family in a disaster.





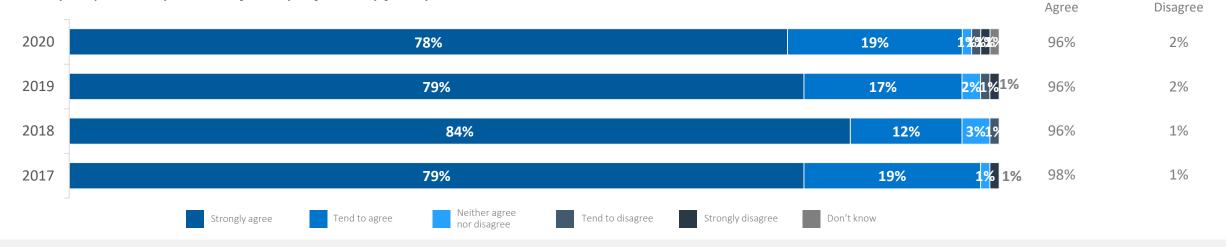
The following groups are significantly less likely or significantly more likely than average to be triggered by family concern:



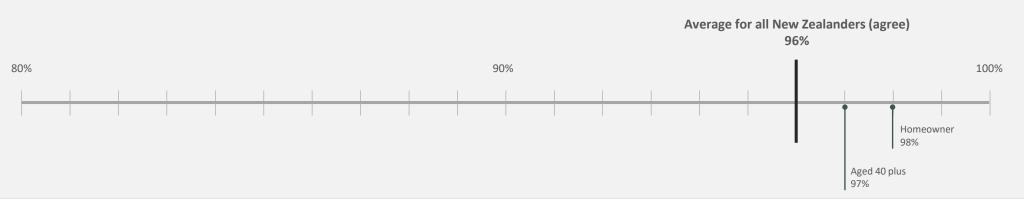


The majority of New Zealanders have a strong sense of self responsibility when it comes to looking after themselves and their family in a disaster.

### Q. It is my responsibility to look after myself and my family in a disaster



The following groups are significantly less likely or significantly more likely than average to be impacted by family responsibility:





## Communications

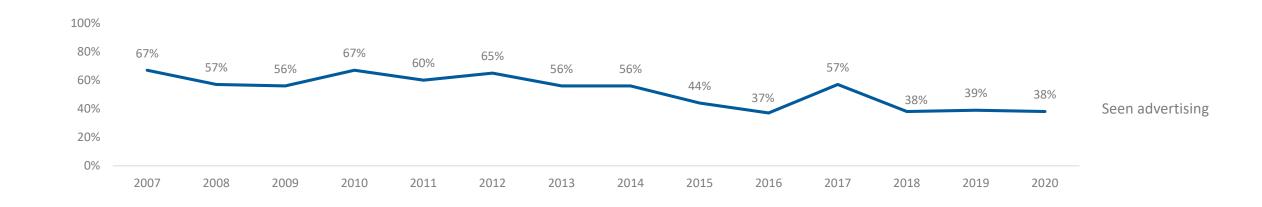




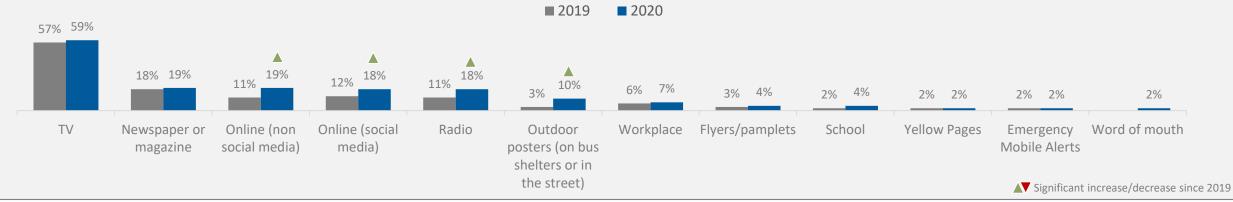


### **Advertising**

Advertising awareness has been steady since 2018. This year more New Zealanders are seeing or hearing advertising online, on the radio, and on outdoor posters.



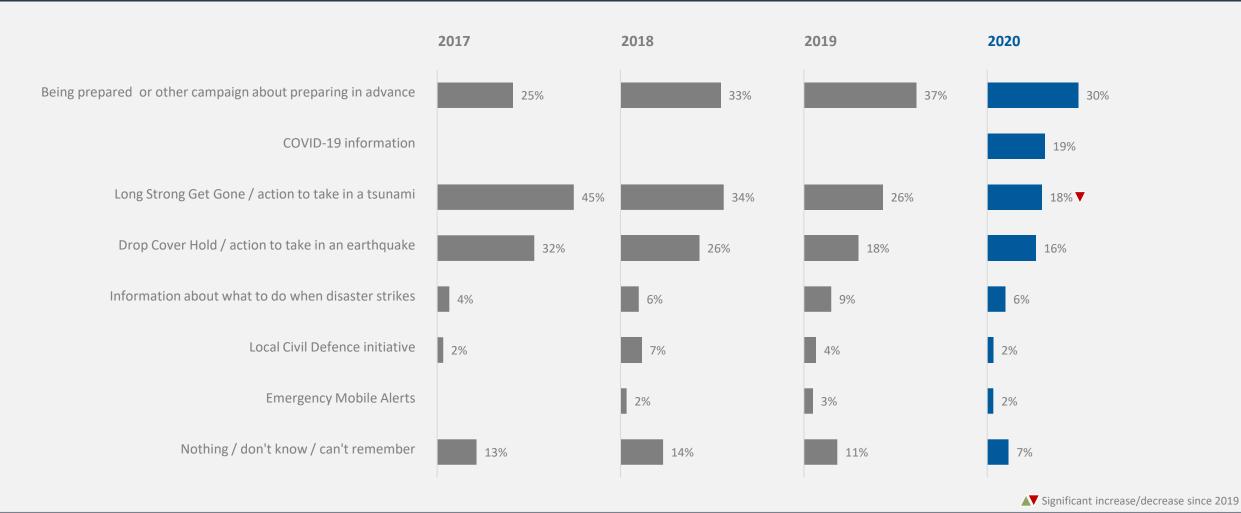
Those who recall advertising mostly say they saw it on TV. There is an increase in online awareness this year.





### **Advertising**

This year 1 in 5 say the advertising they saw was COVID-19 related.





Note: Results 2% and under in 2019 are not shown Source: Q5ai What do you remember about the ads?

## Shake Out and Tsunami Hīkoi



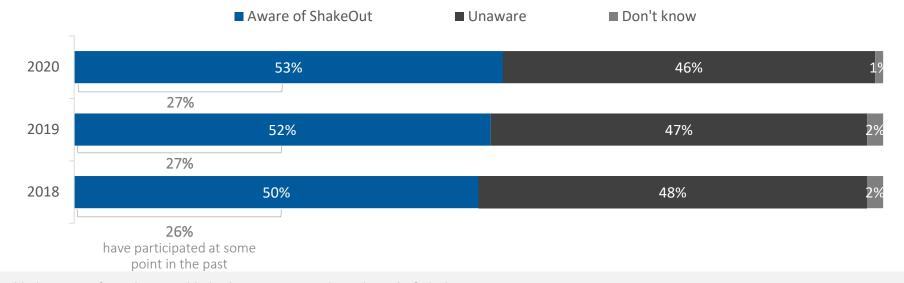




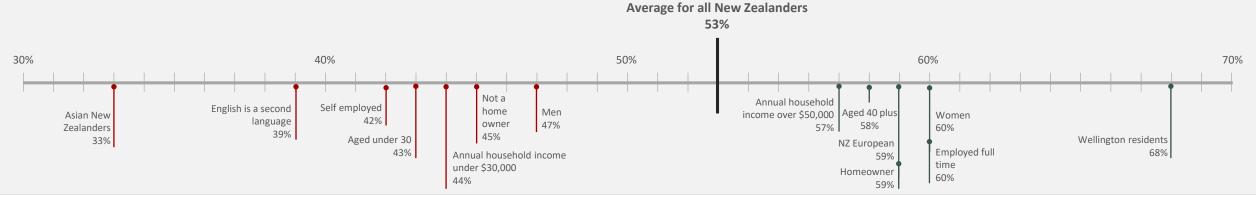
### **ShakeOut**

More than a quarter of all New Zealanders have participated in ShakeOut at some point in the past.





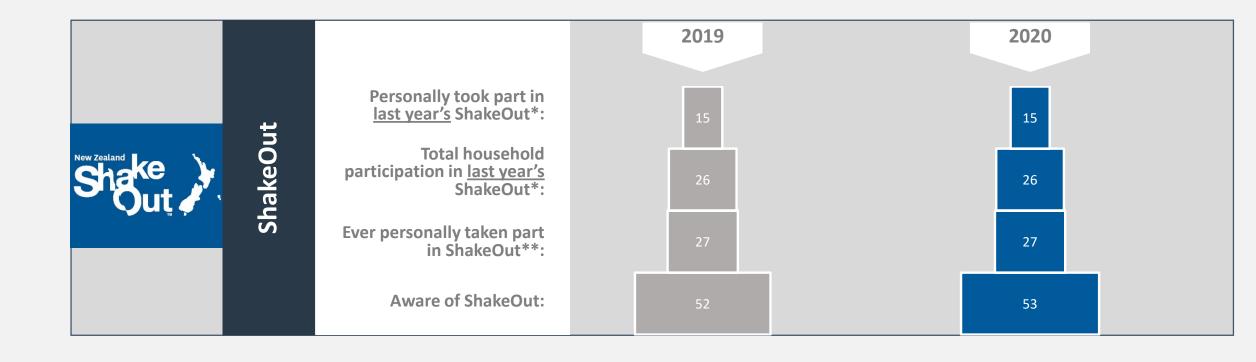
The following groups are significantly less likely or significantly more likely than average to have heard of ShakeOut:





### **ShakeOut**

Fifteen percent of New Zealanders personally took part in last year's ShakeOut drill.

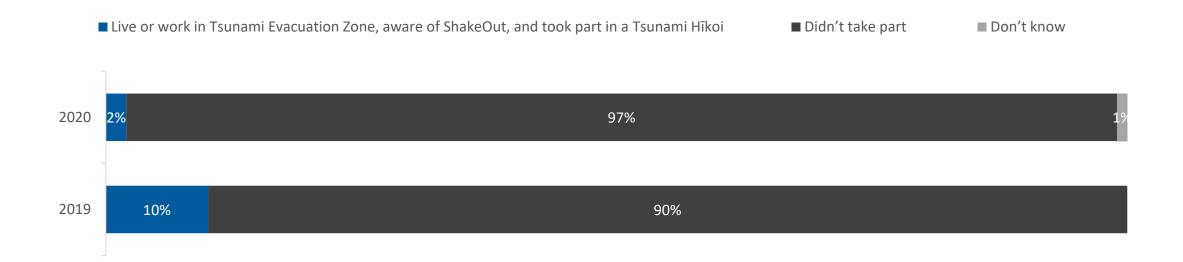




Base: All respondents (2019 n=1,031; 2020 n=1,001)

### Tsunami Hīkoi

Just two percent of people who live or work in a tsunami zone took part in last years Tsunami Hīkoi





## Information sources

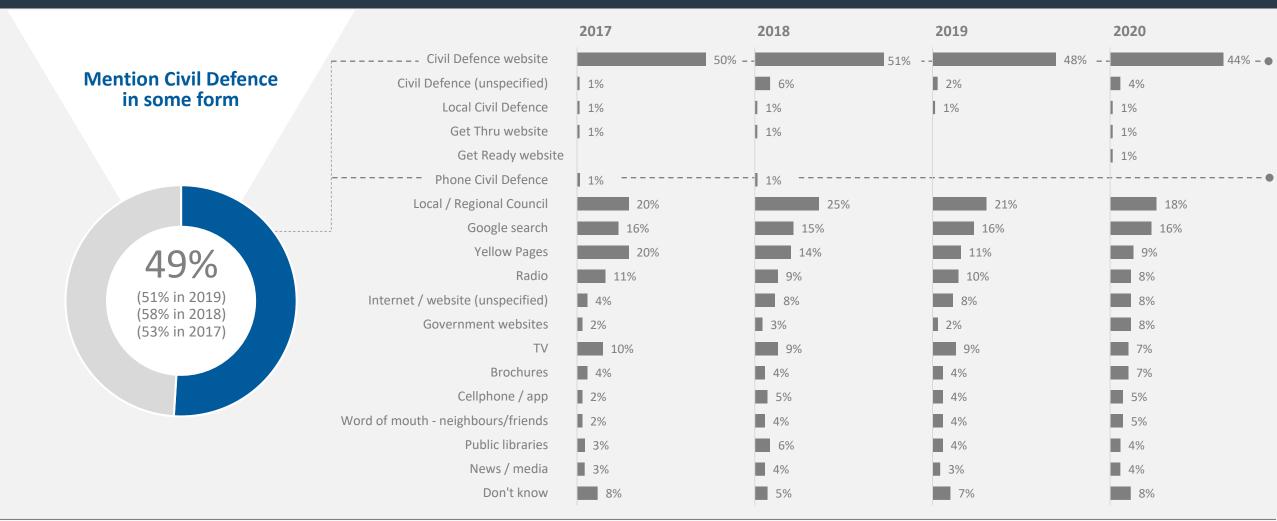






### Sources of information before a disaster

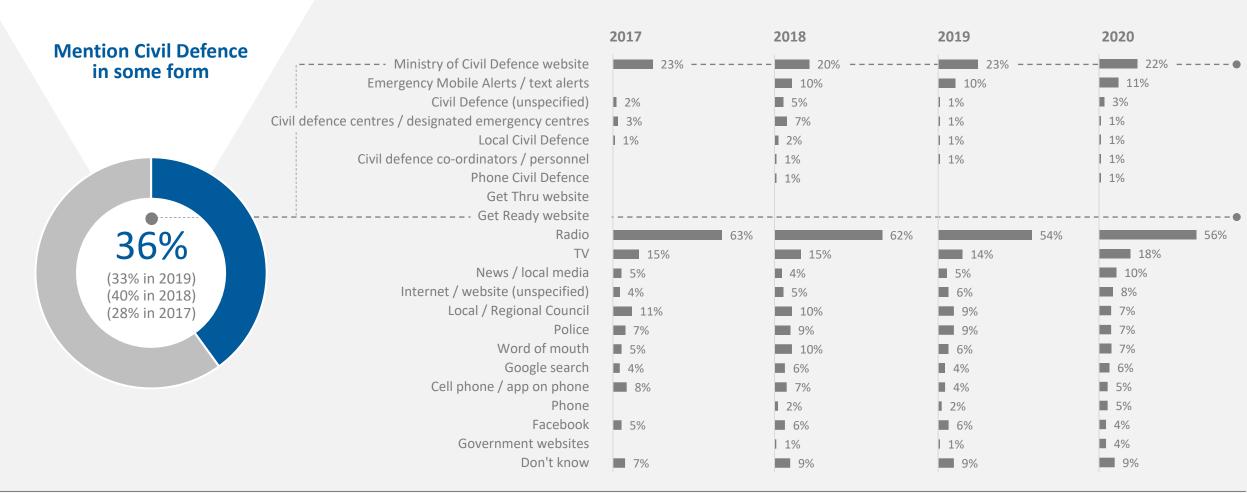
Civil Defence channels continue to be the go-to sources for information about disasters before they occur.





### Sources of information during or immediately after a disaster

A third of New Zealanders say they would utilise Civil Defence during or immediately after a disaster.





# Ensuring resilient communities

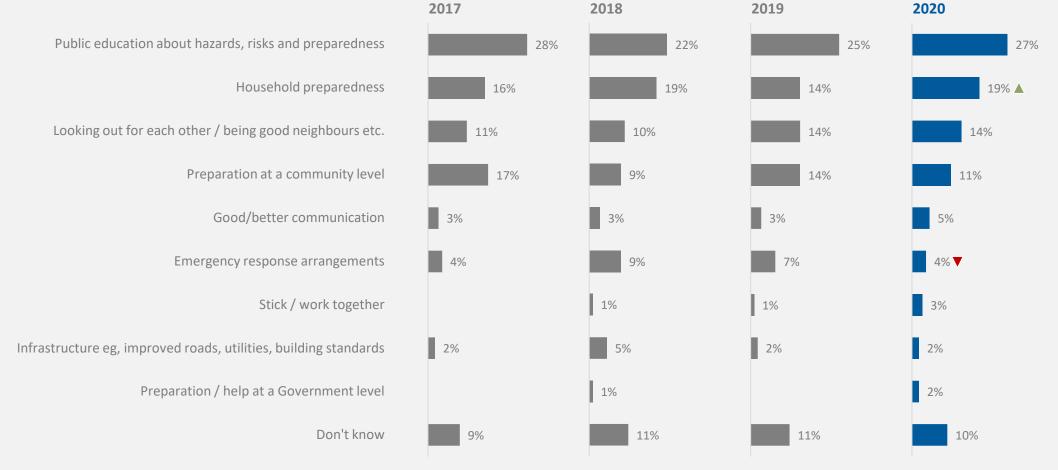






### **Ensuring resilient communities**

Compared to 2019, more New Zealanders now believe household preparedness is the key to ensuring resilient communities.





▲▼ Significant increase/decrease since 2019

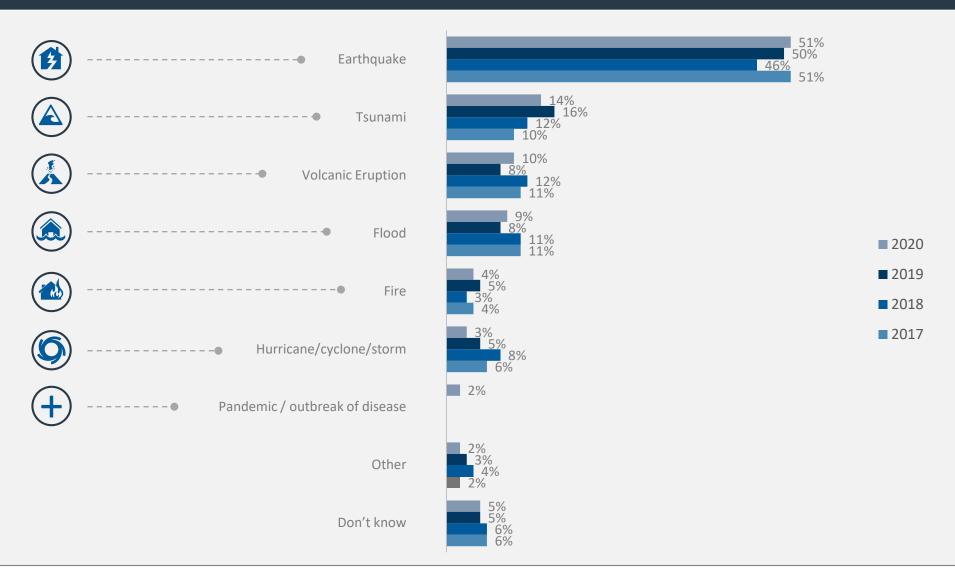
# What do people think when they think 'disaster'?





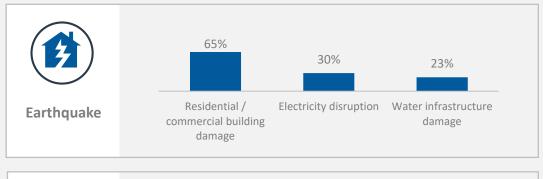


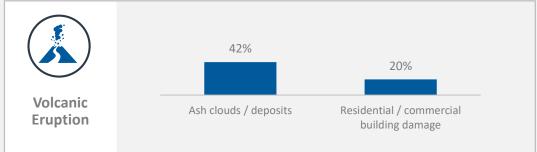
## To New Zealanders 'disaster' means earthquake

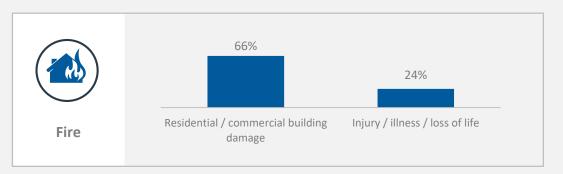


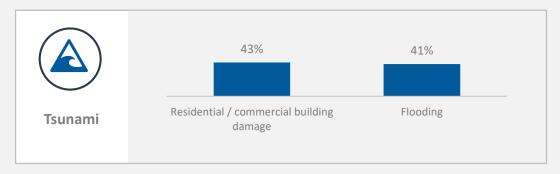


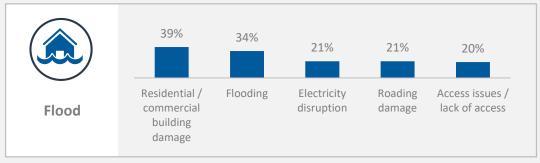
## Awareness of consequences

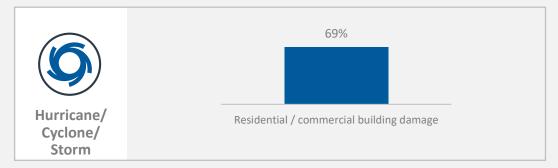














## Appendix – Preparedness continuum







### **Preparedness continuum**



### Have taken action to prepare

2020 2019



Aware

Have a good understanding of the types of disasters that could occur in New Zealand, and the chances of them occurring

#### Understand



Have a good understanding of what the effects would be if a disaster struck in their area

#### Committed



Have stored at least 9 litres of water for each household member\*

Have emergency supplies, e.g., spare food, toilet paper, torch, spare batteries etc\*



Household discussed or planned what to do in a disaster\*

Have stored at least 9 litres of water for each household member\*

Have emergency supplies, e.g., spare food, toilet paper, torch, spare batteries etc\*

Check emergency survival items at least once a year\*

Fully **Prepared** 



Household emergency plan or discussion includes what to do when not at home\*

Have stored at least 9 litres of water for each household member\*

Have emergency supplies, e.g., spare food, toilet paper, torch, spare batteries etc\*

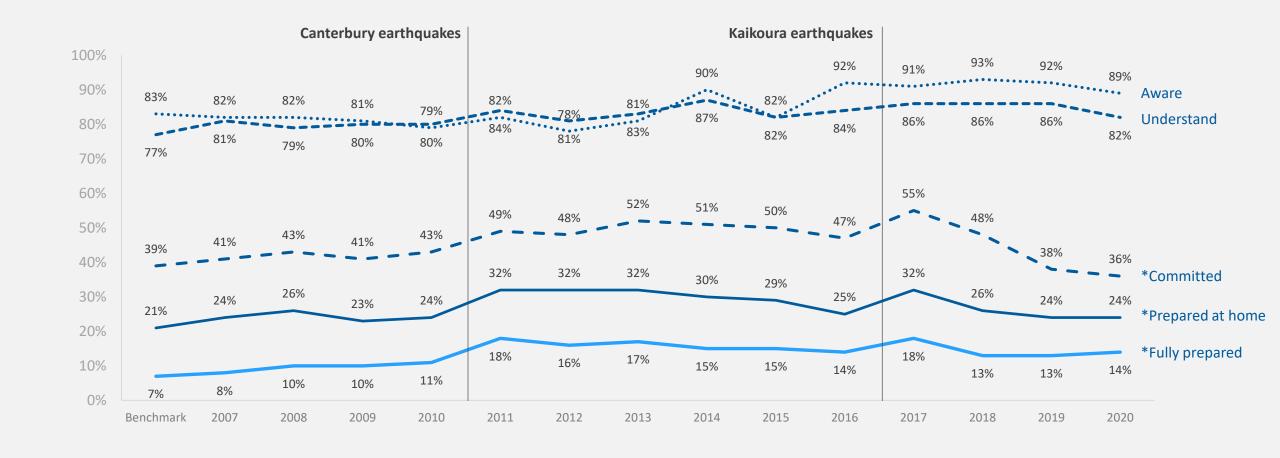
Check emergency survival items at least once a year\*



▲ Significant increase/decrease since 2019



## Preparedness continuum – time series





## Appendix – Māori







### Māori have very similar levels of preparedness and knowledge to all New Zealanders.





The barriers for Māori are similar to those for all New Zealanders, with the exception of Time – Māori are more likely to say there will be adequate warning before a disaster strikes.





### FOR FURTHER INFORMATION PLEASE CONTACT:

### Emma Stratton and Michael Dunne

Colmar Brunton, a Millward Brown Company Level 9, Legal House, 101 Lambton Quay, Wellington PO Box 3622, Wellington 6140





