

Resilience Fund Application Form

This form provides the minimum information for the application. A detailed project plan should be developed to inform this application and may be attached.

Project title	Facilitators and barriers to effective tsunami evacuation in Hawke's Bay, New Zealand: Community trust, confidence and intentions.
Date of application	27 th January 2023
Details on application	
Applicant <i>[CDEM Group must endorse/sponsor all applications]</i>	Hawkes Bay CDEM Disaster Risk Reduction Team.
Sponsoring CDEM Group	Hawkes Bay CDEM
Other local authorities, Groups or organisations supporting this proposal	<i>An application has been made to GNS for partial funding of this project.</i>
Project description	
Executive summary <i>[200 words maximum]</i>	
<p>Timely and effective self-evacuation is the best way to save lives following a long or strong earthquake. This requires individuals to understand tsunami risks, the natural warning signs, the need to evacuate, and have the motivation to evacuate. This information is provided by Territorial Local Authorities and CDEM groups through various methods. Translating that information into action, however, relies on individuals' comprehension, trust in the source and accuracy, and recognition of the relevance of that information. Communications need to provide sufficient information to convince people to act, without being overly complex or ambiguous.</p> <p>Using structured in-person interviews and semi-structured focus group discussions, this project seeks to understand the barriers and facilitators throughout the communication process. Participants will be selected on a semi-random basis to ensure all communities of attribute, place and interest, and vulnerable populations are sampled.</p> <p>The project will conclude with recommendations for best practices in tsunami risk communications in Hawke's Bay and other regions in New Zealand. This will enable TLAs and CDEM groups to target their communications to best support diverse communities in increasing their resilience.</p>	
Challenge/opportunity <i>[200 words maximum]</i>	
<p>The Hawkes Bay coast, including most of Napier City, is at risk of tsunami from many sources. Most significant is the local-source tsunami risk from the Hikurangi Subduction Zone, which could arrive at the coast within 20 minutes of a long or strong earthquake.</p> <p>A tsunami from a local-source would leave little to no time for official warnings, requiring people to self-evacuate. Timely and effective self-evacuation requires prior understanding of the tsunami</p>	

hazard, the risk it poses to the individual and their community, the natural warning signs, and the urgency of the need to evacuate.

Critically, exposure to information is not the only factor required for most people to take preparedness action. Rather, comprehension of, and trust in, the information source and content are also important.

This research seeks to investigate the following topics:

- Awareness and perception of tsunami risks and risk information
- Trust in the source and confidence in the accuracy and relevance of information
- Intent to act upon the information and advice

By understanding these factors and how they may influence tsunami resilience in diverse communities will allow the HB CDEM DRR team to make recommendations to CDEM groups and NEMA as to ideal ways to achieve trusted communication with communities.

This timely research is designed to inform this year's work by the National Tsunami Working Group in updating DGLs and tsunami signage.

Alignment with priorities and objectives of the National Disaster Resilience Strategy (NDRS) [200 words maximum]

This project seeks to both inform and improve the way the CDEM groups communicate with communities to grow their resilience in a way that promotes trust and aligns levels of risk perception across groups. The desired outcome of this research is a risk communication approach that empowers people to build their resilience and does so in a way that recognises the critical role of culture in resilience.

The project aligns with the following priorities and objectives:

1. Managing risks
 1. Identify and understand risk scenarios (including the components of hazard, exposure, vulnerability, and capacity), and use this knowledge to inform decision-making.
 3. Build risk awareness, risk literacy, and risk management capability, including the ability to assess risk.
3. Enabling, empowering, and supporting community resilience
 13. Enable and empower individuals, households, organisations, and businesses to build their resilience, paying particular attention to those people and groups who may be disproportionately affected by disaster.
 14. Cultivate an environment for social connectedness which promotes a culture of mutual help; embed a collective impact approach to building community resilience.
 15. Take a whole of city/district/ region approach to resilience, including to embed strategic objectives for resilience in key plans and strategies.
 18. Recognise the importance of culture to resilience, including to support the continuity of cultural places, institutions, and activities, and to enable to the participation of different cultures in resilience.

Alignment with Principles and Allocation Preferences [200 words maximum]

This research aligns predominantly with two key principles:

- A local/regional focus
- Values the role of Māori in the emergency management system.

The research will be carried out specifically in the Hawkes Bay region, with a focus on understanding our own local communities. While the results may be widely applicable, the project will most directly impact local practice.

It is critical that different Māori communities are well represented in this research. Māori perspectives on emergency management are critical not only in risk communication, but in emergency management practice as a whole.

The project aligns with the National Disaster Resilience Strategy as listed above, and seeks to achieve equity for Māori. Furthermore, the project is focussed on practical and implementable outcomes, seeking to specifically influence community engagement and public information practice.

Application of outcomes/benefits to sector *[200 words maximum]*

A population that is aware of risks and is well-prepared to respond appropriately to an event is an essential component of “a resilient Hawke’s Bay”, the vision of HB’s CDEM and New Zealand’s National Disaster Resilience Strategy. Determining the facilitators and barriers to appropriate event response, including types of information and communication methods, is critical to achieving that goal, and will improve cost-benefit efficiencies. It will also be presented to the National Tsunami Strategy Group and other stakeholders as it is expected that many of the outcomes will be relevant across New Zealand.

Ongoing costs (post-project) and how it will be funded *[200 words maximum]*

The ongoing cost of implementing the results of this work, within the HB CDEM group, will be funded through the Disaster Risk Reduction budget. It is expected that TLAs will continue to fund practical implementation of the fund as ‘business as usual’: no increase in expenditure is anticipated although the nature of the expenditures may change.



Project design

Project manager	Adam Childs
Other project members	Georgia McCombe, Audrey Tolua
External providers/contractors	Independent researchers may be contracted The Joint Centre for Disaster Research (JCDR) will be contacted for advice and guidance Dr. Danielle Charlton (GNS) will be consulted to ensure research results are compatible across projects
NEMA resource (if needed)	

Deliverables *[Note: payments will be made after successful completion of milestones identified]*

Key milestones	Date for completion	Cost (invoice amount)
----------------	---------------------	-----------------------

Collect data through focus group discussions	28 July 2023	\$ 15,960
Transcribe and code data	25 August 2023	\$ 16,800
Analyse data, produce conclusions and recommendations	27 October 2023	\$ 28,800
Produce final paper for distribution	30 November 2023	\$ 6,000
Identified risks		
Risks	Suggested mitigation / management	
Survey results inconsistent or ambiguous due to researcher methods	In-person surveyors will be fully trained before commencing work. Observed pilot interviews will occur, surveyors debriefed with constructive feedback. Focus groups will be conducted with a minimum of 2 researchers. The same researchers will be used for consistency; early FGD will include an observer specifically tasked to identify any researcher bias	
Not enough participants can be sourced for each focus group discussion	Community engagement teams will provide support to identify and encourage participation. Adequate time will be allowed to seek out participants. Incentives will be provided for participants.	
Participants do not accurately reflect community attribute, place and interest diversity	Margins of error and confidence levels based on statistical standards will be reported for each sub-group. <i>In extremis</i> further surveys and/or discussions will be undertaken.	
HB CDEM group enters a response, delaying the project	Significant project delays will be reported to NEMA along with a new timeline for key milestones and deliverables. Major delays may result in the team subcontracting the data collection to ensure the project can ultimately be delivered on time.	
COVID-19 resurgence	If the situation requires, interviewers in the focus groups will wear masks and participants will be seated at 2m distance, and the room will be well ventilated.	
Research results are not accepted or implemented by TLAs	TLAs and other stakeholders will be involved early in the project. They will also be consulted with during the development of recommendations to ensure these are practicable wherever possible.	
Funding request and use		
CDEM Resilience Fund contribution	\$ 67,560.00	

Local authority / organisation contribution	\$ 21,400.00 (Hawke's Bay CDEM)		
Other sources of funding or support	\$ 32,000.00 (GNS – yet to be approved)		
Budget <i>[please supply spreadsheet]</i>	\$ 120,960.00		
Applies if application exceeds \$100,000 over the life of the project	Are you prepared to attend an interview in support of this application (if needed)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Application confirmation			
Is this application from an individual or other organisation		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Does the CDEM Group support this application? <i>[sign off below confirms support]</i>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Approval of Chief Executive [Chief Executive or Head of the organisation receiving the funding]	 Name: James Alexander Palmer		
Approval of CEG Chair	 Name: Douglas John Tate		
All communications regarding the application, including approval decisions will be addressed to the Chief Executive and CEG Chair			
CDEM Group comment			

Note: Only complete forms will be considered for assessment. All completed forms and supporting documents must be emailed to NEMA at resilience.fund@nema.govt.nz

NEMA Assessment [internal use only]		
Principles	Yes	No
Local / regional focus	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Values the role of Māori in the Emergency Management System	<input type="checkbox"/>	<input type="checkbox"/>
NEMA involvement required	<input type="checkbox"/>	<input type="checkbox"/>
Allocation Preferences		

Alignment with NDRS	<input type="checkbox"/>	<input type="checkbox"/>
Achieves equity of outcomes for Māori communities, marae, hapū, iwi and Māori organisations	<input type="checkbox"/>	<input type="checkbox"/>
Outcome focused	<input type="checkbox"/>	<input type="checkbox"/>
Applicable in other regions / CDEM Groups	<input type="checkbox"/>	<input type="checkbox"/>
Supports national consistency	<input type="checkbox"/>	<input type="checkbox"/>
Wider funding / resource commitment	<input type="checkbox"/>	<input type="checkbox"/>
Build on existing work	<input type="checkbox"/>	<input type="checkbox"/>
Operational expenditure (Opex)	<input type="checkbox"/>	<input type="checkbox"/>
Capital expenditure (Capex)	<input type="checkbox"/>	<input type="checkbox"/>
Other		
Application from individuals or other organisations endorsed/sponsored by CDEM Group		
NEMA Subject Matter Expert Comment	Supported <input type="checkbox"/>	Not supported <input type="checkbox"/>
NEMA Regional Emergency Management Advisor Comment	Supported <input type="checkbox"/>	Not supported <input type="checkbox"/>

NEMA Review Panel Comment	Supported <input type="checkbox"/>	Not supported <input type="checkbox"/>
NEMA Director Decision Sign-off	Approved <input type="checkbox"/>	Declined <input type="checkbox"/>
<p>Director of Civil Defence Emergency Management</p>		

Appendix A Report Template

CDEM Resilience Fund Project Status Report			Date: DD MMMM YY	
Project title				Project number
Project manager		Contact details		
Executive summary of status				
Progress of deliverables				
Milestones	Status (on track, delayed, etc.)		Progress this quarter and next steps	

Identification of any issues (actual or potential)					
	Issue			Mitigation	
Schedule					
Staff resources					
Budget					
Dependencies					
Stakeholders					
Quality					
Other					
Budget					
Activity	Expenditure to date	Budget to date	Full year budget	Budget forecast	Variance

Comment on variance

Confirmation

I confirm the status report is accurately reflected and the invoice amount is correct.

Project Manager

Chief Executive

CEG Chair

Comment by Resilience Fund Coordinator