



CDEM Resilience Fund project application form

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

Project title	Taranaki Unrest Response and Recovery North Island Plan (TURRNIP) – Initial Phase
Date of application	15 January 2021

Details on application

Applicant	Taranaki CDEM Group
CDEM Group/s affected	Taranaki, Manawatū/Whanganui, Waikato, rest of the nation if reticulated natural gas supply or air transport system affected.
Other local authorities, Groups or organisations supporting this proposal	Manawatū-Whanganui CDEM Group, Waikato CDEM Group, Auckland CDEM Group, Wellington Region CDEM Group

Project description

Executive summary

It is predicted that there is a 50% chance of an eruption from the Taranaki strato-volcano within the next 50 years. Scientists also believe that Taranaki is the most likely volcano to cause nation-wide impacts during our lifetime. Research has also shown that eruptive periods for the volcano typically continue for years to decades once it starts erupting.

A robust decision-making framework for how civil defence groups and central government will respond in a coordinated fashion is needed as the scale of a Taranaki volcanic eruption sequence is likely to require a nationally coordinated response. Due to a request to submit a shortened project our original application has been divided to include just a short but valuable part of the original year one proposal. It is intended to apply for further funding in the future to assist with completing the entire two-year original project.

The key outcomes of this shortened project will include:

1. University of Canterbury's volcanic impact research translated into an easily understood document for the use of lifelines organisations and CDEM Group decision makers (including a description of interdependencies between lifelines and likely restoration scenarios)
2. A range of likely eruption sequence scenarios will be translated into science communication maps and GIS layers for use during planning and community outreach – the scenarios will be produced as part of the Transitioning Taranaki to a Volcanic Future Endeavour Fund project.

The completion of the above two phases will contribute towards the following longer-term outcomes proposed in our original two-year project proposal to the NEMA Resilience Fund:

- A decision-making framework for controllers and mayors to assist with initial response plan priorities and coordination requirements that uses the best available volcanic hazard forecasting tools being developed in other scientific streams of research
- A strategic plan for recovery from eruptive episodes (and adaption to a new norm) during what may be an ongoing sequence of events
- Identification and planning for community and business resilience in areas likely to be heavily impacted

Challenge/opportunity

The fallout from a Taranaki eruption sequence will require a new way of responding to a natural hazard event in New Zealand. A year-long, or even decades-long series of eruptions is considered the likely scenario. This may mean regular disruptions of the transport and energy sectors nationally, and regional

effects on waterways, drinking water supplies, and farming infrastructure. This is likely to be accompanied by widespread fear and fatigue.

New scientific information from the last decade (and planned for the next five years) is creating a wealth of information that needs to be translated into useful decision-making tools for the civil defence sector, businesses, the community and central government.

We expect the volcano, as a dynamically evolving hazard, to force a rethink of the largely sequential 4Rs model. Planning for how we move between cycles of response and recovery over a long period of time while maintaining business and community confidence in the region is a challenge. Providing an improved level of certainty with event progression forecasting will assist this enormously.

Alignment with identified goals and objectives identified in the CDEM sector

The project aligns particularly well with the following objectives from the National Disaster Resilience Strategy:

Objective 1: Identify and understand risk scenarios (including the components of hazard, exposure, vulnerability, and capacity), and use this knowledge to inform decision-making

Objective 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 disasters

The National CDEM Plan aims to integrate and align agencies' CDEM planning and related operational activities at the national level.

The Manawatū-Whanganui CDEM Group Plan relevant strategic goals are: Goal 3: Agencies are aligned, prepared and able to provide an effective response to an emergency. Goal 4: Communities and agencies can effectively recover from an emergency

The Waikato CDEM Group Plan relevant strategic goals are: Sections 5/6 Enhance our capability to deliver an effective response. Goal 7 Enhance our capability to recover from emergencies.

The Taranaki CDEM Group Plan vision is *“Our Taranaki community shows resilience through periods of disaster, crisis, and change.”*

The Wellington CDEM Group Plan states: *“The goal of this Plan is for all individuals and households, businesses and organisations, communities, cities and districts in the region to be ready, capable and connected.”*

The Auckland CDEM Group Plan vision is *“Working together to build a resilient Auckland”* which includes preparing for the response to, and recovery from, emergency events originating from in and outside of the Auckland regional boundaries.

Dissemination of benefits to sector

Sector benefits will be realised by active CDEM group participation in the project through identifying consequences and vulnerabilities individually and as a group.

Phase 1: Face to face meetings between scientists, lifeline utility managers and decision makers will raise awareness of the likely impacts of various types of volcanic eruption. Discussions will be held about gaps in scientific knowledge and what existing response plans look like for all agencies, lifelines and businesses. Community meetings to raise awareness of the risks associated with volcanic eruption and to promote community and business response planning are being run/sponsored by the Transitioning Taranaki to a Volcanic Future Project where the outputs of this resilience fund work will be utilised.

Outputs of the project to be publicly available include: a summary of best scientific information available and outline of future work planned.

Project design	
Project sponsor	Todd Velvin
Project Manager	To be appointed
Other project members	<p>Proposed Steering Group Members (representatives from):</p> <ul style="list-style-type: none"> a) Taranaki CDEM Group b) Manawatū -Whanganui CDEM Group c) Waikato CDEM Group d) Auckland CDEM Group e) Wellington CDEM Group f) NEMA g) MBIE h) Department of Conservation i) Risk project team leader plus one alternate j) Taranaki Iwi Chairs Forum¹ <p>Risk Project Team Members:</p> <ul style="list-style-type: none"> a) University of Canterbury b) Massey University c) Auckland University d) GNS Science e) Project Manager f) NEMA Planning team g) Steering Group Chair h) TEMO CDEM Analyst <p>Response Project Team Members:</p> <ul style="list-style-type: none"> a) Project Manager (team leader) b) Taranaki CDEM Group c) Manawatū -Whanganui CDEM Group d) Waikato CDEM Group e) Auckland CDEM Group f) Wellington CDEM Group g) NEMA Planning team h) NEMA REMA i) Risk Project team leader j) Taranaki Emergency Services k) Taranaki Lifelines Advisory Group l) Taranaki Primary Industries Sector Group m) Venture Taranaki (economic development agency) <p>Other notable organisations/position holders to be involved in project work include: Taranaki Regional Council hazards specialist Waikato Regional Council hazards specialist Horizons Regional Council hazards specialist NZ Lifelines Council</p>

¹ See attached Project Plan with explanation of current state of engagement with Taranaki Iwi Chairs Forum and the Deed of Agreement Process regarding Taranaki Maunga.


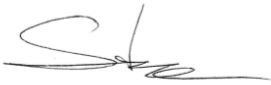

External providers/contractors	NZ Universities, GNS Science, and other possible organisations include Joint Centre for Disaster Research, Resilient Organisations, EQC	
Deliverables		
Milestones	Date for completion	Cost
<p>Phase One: Quantifying and communicating volcanic risk:</p> <ol style="list-style-type: none"> 1. Engagement of project manager 2. Formation of working group, terms of reference and project management framework 3. University of Canterbury's volcanic impact research translated into an easily understood document for the use of lifelines organisations and CDEM Group decision makers (including a description of interdependencies between lifelines and likely restoration scenarios) 4. Develop a package of likely eruption sequence scenarios and translate them into science communication maps and GIS layers for use during planning and community outreach – the scenarios will be produced as part of the Transitioning Taranaki to a Volcanic Future Endeavour Fund project 5. Project Management 6. Travel, accommodation, and associated costs for CDEM Group staff and project manager 	<p>1 April 2021</p> <p>31 March 2021</p> <p>30 October 2021</p> <p>30 October 2021</p> <p>Total</p>	<p>\$10,000</p> <p>\$20,000</p> <p>\$25,000</p> <p>\$15,000</p> <p>\$70,000</p>
Identified risks		
Risks	Suggested management	
<ol style="list-style-type: none"> 1. Commitment to project from partners 2. Volcano erupts before the work is complete 	<ol style="list-style-type: none"> 1. Employ good quality engagement methods with regular communication that emphasises the benefit to all contributing partners 2. Ensure that all work done is able to be operationalised as well as possible straight away. 	

<p>3. Project manager unable to be recruited/ becomes unsuitable</p> <p>4. Individual groups (including CDEM groups and NEMA) do not have the capacity to contribute fully</p> <p>5. Poor links to Transitioning Taranaki to a Volcanic Future project cause public/agency confusion.</p>	<p>Recognise that all work will improve response and recovery anyway.</p> <p>3. Work to identify a suitable project manager will take place before the application is submitted to ensure that the proposed budget is fit for purpose. Good performance management techniques will be employed to ensure project manager gets regular feedback and stays on track.</p> <p>4. This will be a challenge due to limited budgets however the project itself is likely to highlight the need for more resources in order to improve resilience.</p> <p>5. TTVF project managers and Taranaki CDEM Group staff conduct regular catch up meetings via Zoom and face to face to ensure consistency.</p>
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Funding request and use

CDEM resilience fund contribution	\$70,000			
Local authority/organisation contribution	In-kind staff time for project leadership, and staff time (all participating CDEM groups) for assistance in developing and reviewing maps and documents. Other CDEM Group staff time as a contribution – group managers, planners etc. Estimated value of \$144,500			
Other sources of funding or support	The hazards science and scenario development work will be funded through Transitioning Taranaki to a Volcanic Future MBIE Endeavour Funding,			
Budget	Attached			
Applies if application exceeds \$100,000 over the life of the project	<table border="0"> <tr> <td data-bbox="767 1155 1142 1238">Do you wish to attend a hearing in support of this application?</td> <td data-bbox="1142 1155 1310 1238">Yes <input type="checkbox"/></td> <td data-bbox="1310 1155 1426 1238">No <input checked="" type="checkbox"/></td> </tr> </table>	Do you wish to attend a hearing in support of this application?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Do you wish to attend a hearing in support of this application?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		

Application confirmation

<p>Approval of Acting Chief Executive NPDC</p> <p>Date: 14/01/2021</p> <p>Approval of Coordinating Executive Group Chair</p> <p>Date: 15/01/2021</p> <p>Approval of Joint Committee Chair</p> <p>Date: 15/01/2021</p>	<p>Kelvin Wright</p>  <p>Sven Hanne</p>  <p>Tom Cloke</p> 
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CDEM Group comment

Comment:

The Taranaki CDEM Group at its meeting on Tuesday 17 September 2019 approved the original application to be submitted on 1 October 2019. This abbreviated version (containing approximately 25% of the original multi-year application) has not been formally passed through CEG due to the very short timeframes to provided by NEMA to submit this re-worked proposal to them for consideration. The Waikato, Auckland and Manawatū/Whanganui CDEM Groups have confirmed their support for the amended proposal. Manawatū-Whanganui Lifelines Advisory Group have also specifically endorsed this project