



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	Hikurangi Response Plan
Date of application	30 September 2018
Details on application	
Applicant	Hawke's Bay Regional Council
CDEM Group/s affected	CDEM Groups directly affected: Hawke's Bay, Gisborne, Wellington, Manawatu/Wanganui and Bay of Plenty
Other local authorities, Groups or organisations supporting this proposal	East Coast LAB and Research Groups: GNS Science, Massey University, Earthquake Commission & Quake CoRE

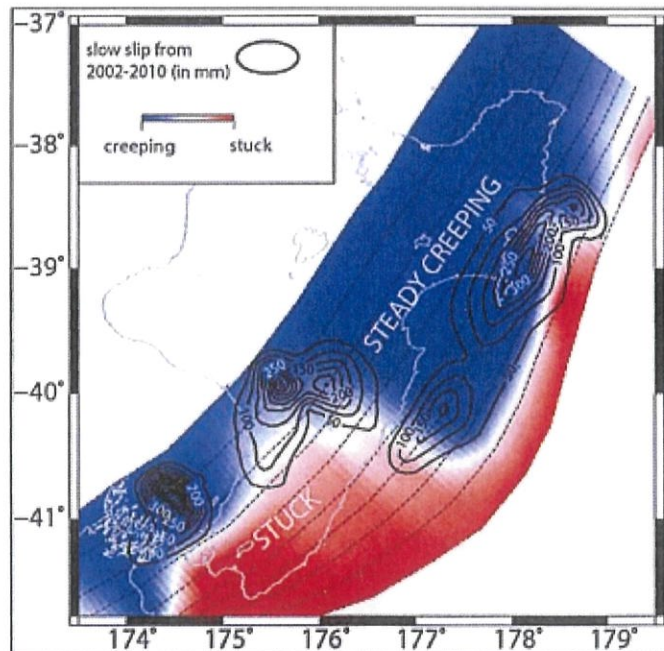
Project description

Executive summary [200 words maximum description.]

This application is for Year 2 of the Hikurangi Response Plan (HRP). It is envisaged that a further application will be made in the third year to continue this programme along the lines of our fellow project AF8.

There are increased risks posed by the Hikurangi subduction zone: New Zealand's largest plate boundary fault which appears to be locked due to friction on the fault. Research to date indicates this fault can produce earthquakes of magnitude 8 or greater. The impact on the North Island and the national economy will be significant and we must provide strategic thinking and a coordinated effort to plan for the next event.

An event of this magnitude requires coordinated planning and CDEM exercising. Until the Hikurangi Response Plan Project was initiated, each CDEM Group had been working largely in isolation preparing plans.



This application is for funding to create and run a Tier 3 exercise, based off the maximum credible scenario produced by GNS, to 'ground-truth' the initial response plan (due to be completed by September 2019). Following an exercise being developed in FY2019/2020, this project has the intention of applying for further funding in FY2020/21 to embed lessons learnt from the exercise with plan review, engagement and preparation. This project advocates for a Tier 4 exercise to be run in 2024 to nationally embed the Hikurangi Response Plan.

The aims of this application are to:

AIM 1: To create and run a Tier 3 exercise for a Hikurangi Subduction Zone rupture which involves the five CDEM groups affected.

AIM 2: To assist the five CDEM groups affected by a Hikurangi Subduction Zone rupture with the development of planning templates for Group level plans regarding a Hikurangi Subduction Zone rupture

AIM 3: To continue to work with scientists and researchers to maintain excellent working relationships established with CDEM nationally and generate relevant, applied research that addresses current gaps in knowledge which will help to refine the Hikurangi Response Plan.

AIM 4: To continue to engage with community groups regarding their risk to embed personal preparedness and build resilience.

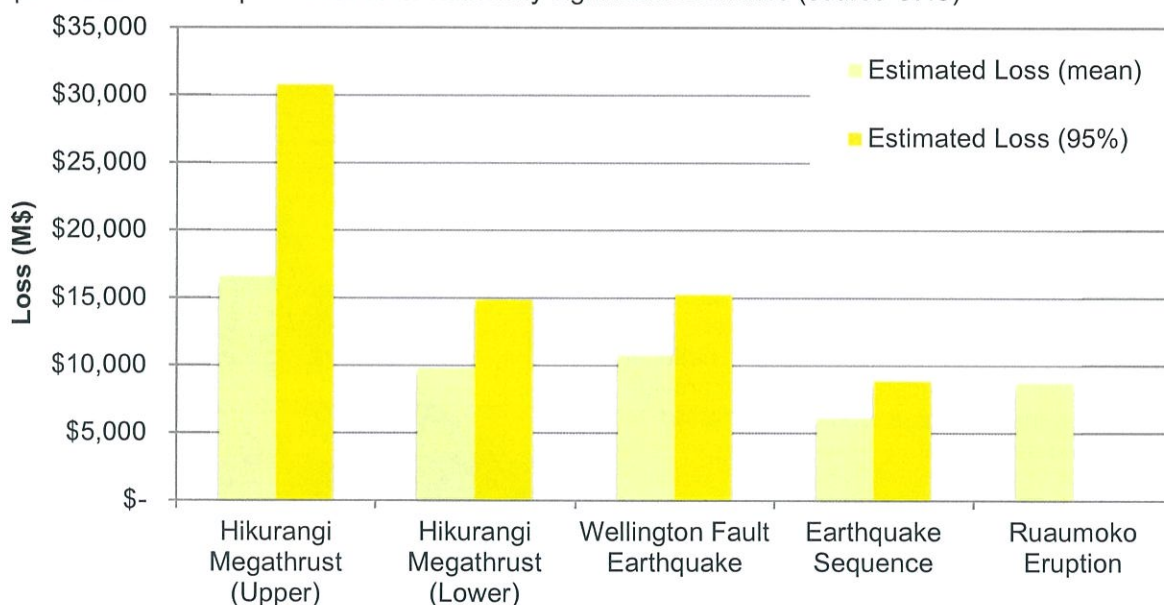
Challenge/opportunity [200 words maximum description.]

The Hikurangi subduction zone is potentially the largest source of earthquake and tsunami hazard in New Zealand and research to date indicates this fault can produce earthquakes of magnitude 8 or greater. The impact on the North Island and the national economy will be significant (see graph) and we must provide strategic thinking and a coordinated effort to plan for the next event.

Year 1 of the Hikurangi Response plan had the focus coordinating CDEM planning with the science around the subduction zone to produce an initial response plan. The challenge for year 2 & 3 is to build on this work by exercising the plan, with final review, engagement and preparation. This will enable CDEM groups to test their response and ground-truth plan content which will lead to a more robust response plan. Having a tested response plan will put us in a better place to serve our communities in the long term.

This project will be managed under the umbrella of East Coast LAB, a multi-agency initiative which seeks to develop and build effective partnerships to promote and make accessible cutting-edge research that aims to increase understanding of the East Coast plate boundary. This project will assist in building relationships into the future, which will vastly enhance the resilience of New Zealand to this significant risk.

Graph shows cost comparison to other nationally significant scenarios (source GNS)



Alignment with identified goals and objectives identified in the CDEM sector [200 words maximum description.]

The National CDEM Strategy sets out the overall direction for CDEM in New Zealand. It has a vision: Resilient New Zealand: communities understanding and managing their hazards. This project aligns with the following goals and objectives:

- Goal 1 Increasing community awareness, understanding preparedness and participation in civil defence emergency management.
 - 1a – Increasing the level of community awareness and understanding of the risks from hazards.
- Goal 2 Reducing the risk from hazards to NZ
 - 2b - Developing a comprehensive understanding of New Zealand’s hazard-scape.
 - 2c - Encouraging all CDEM stakeholders to reduce the risks from hazards to acceptable levels.
- Goal 3 Enhancing New Zealand’s capability to manage civil defence emergencies
 - 3b, c, d, e & f – Enhancing the ability of CDEM Groups, emergency services, lifeline utilities and government agencies to prepare for and manage an event of national significance.
- Goal 4 Enhancing New Zealand’s capability to recover from civil defence emergencies
 - 4b - Enhancing the ability of agencies to manage the recovery process

Other CDEM regional plans have similar goals and objectives.

Dissemination of benefits to sector *[200 words maximum description.]*

Exercising the Hikurangi Response Plan (AIM1) aligns with National Strategy Goal 1, 2 & 3 as it will raise awareness, improve cooperation across regional boundaries and provide a basis for informed conversations around preparing for a Hikurangi Subduction Zone rupture. There is a danger that unless we continue to resource the coordinated effort, the progress made through FY2018/2019 will be stalled and the plan will 'sit on the shelf' untested.

Creating an effective exercise will rely on sector consultation and bringing together Groups and stakeholders from across the North Island East Coast (Goal 3). Having the opportunity to exercise and 'ground truth' the HRP will be of immeasurable benefit when this event happens. Key learnings from the exercise will be published online to enable the entire CDEM sector to take away learnings and provide a catalyst for further sector response and recovery planning.

By working with scientists to address gaps in knowledge to refine the HRP (AIM3, Goal 2, Goal 3), the HRP will be able to effectively inform Community Response Plans and the development of planning templates for use by CDEM Groups (AIM 2, Goal 3). Detailed response planning at Group level which improves understanding about the risk posed by the Hikurangi Subduction Zone will enhance recovery capability and capacity (Goal 4).

Engaging with communities across the five Groups to reinforce preparedness key messages and encourage participation in CDEM activities will significantly benefit communities by increasing their resilience to a Hikurangi Subduction Zone event (AIM4, Goal 3). Communities will become risk aware through this engagement which will increase awareness regarding Community Response Planning (Goal 1).

Project design

Project manager	East Coast LAB-Lisa Pearse
Other project members	<ol style="list-style-type: none"> 1. Tairāwhiti CDEM Group 2. Hawkes Bay CDEM Group 3. Bay of Plenty CDEM Group 4. Manawatu-Wanganui CDEM Group 5. Wellington CDEM Group 6. East Coast Life at the Boundary project partners
External providers/contractors	GNS Science & NIWA Universities QuakeCore Earthquake Commission Communication Consultant

Deliverables

Milestones	Date for completion	Cost
CDEM Group Collaboration (AIM 1-2) 1. Re-define Terms of Reference for the HRP Project Team, re-establish steering group and define links with science community. 2. Coordinate planning and preparation for a Tier 3 Hikurangi subduction zone exercise for the five CDEM groups 3. Inform community response planning in each Group through identifying local impacts of a Hikurangi Subduction Zone Rupture.	30 September 2019 Estimated exercise date April 2020. Ongoing until June 2020	

<p>4. To promote consistency, assist the five CDEM groups affected by a Hikurangi Subduction Zone rupture with the development of planning templates for group level plans regarding a Hikurangi Subduction Zone rupture.</p>	<p>Ongoing until June 2020</p>	
<p>Working with the Science Community (AIM 3)</p>		
<p>5. Refine the impacts of the Hikurangi subduction zone worst case scenario and use this scientific input to enhance the planning of CDEM Groups</p>	<p>Ongoing until June 2020</p>	
<p>Engaging with the Community (AIM 4)</p>		
<p>6. Develop a communications strategy which enables HRP to effectively communicate about the risk posed by the Hikurangi Subduction Zone. The strategy will cover:</p> <ul style="list-style-type: none"> a) A stocktake of current public education and community engagement material b) Development of education materials informing the public about their risk from the Hikurangi Subduction Zone and ways they can increase personal and community resilience, c) Promotion of the HRP brand through different media, such as the East Coast Life at the Boundary website, 	<p>30 January 2020</p>	
<p>7. Oversee community activities in five CDEM Group areas to encourage communities to undertake risk reduction activities (e.g. making personal plans, practising evacuation routes) through hosting meetings, public talks and special events involving the scientific community.</p>	<p>Ongoing until June 2020</p>	
<p>-----</p>		
<p>Management by Project Leader @ 40hrs/week, and Project Leader East Coast LAB @ 160hrs</p>	<p>Reported Monthly</p>	<p>\$100,000</p>
<p>Fees for employment of a contractor to contribute to exercise planning/coordination.</p>	<p>Reported Monthly</p>	<p>\$40,000</p>
<p>Development of a communications strategy and employment of a Communications Expert to assist with</p>	<p>Reported Monthly</p>	<p>\$40,000</p>

PR, HRP branding and education material. Project Administration, consumables, printing, etc.	Reported Monthly	\$20,000
Travel, workshops and associated costs including at least two community meetings in each Group, travel costs for specialists and coordinator travel and expenses around the East Coast.	Reported Monthly	\$50,000
Total		\$250,000

Identified risks

Risks	Suggested management
Commitment to timeframes and completion of milestones	The Steering Group will oversee all work and receive monthly reports to monitor expenditure and progress.
The Hikurangi Subduction Zone ruptures/another significant CDEM emergency occurs before work is completed.	Any preparation will be of benefit and starting the conversations with interested parties is key to networking and providing a coordinated response.
Programme Coordinator becomes unavailable/unsuitable	Work will be reviewed monthly by steering group and any deficiencies highlighted and addressed.
Late approval of project prevents completion of milestones	Working closely with MCDEM to ensure quick start to project and early identification of possible underspend for carry over.
Misrepresentation of the worst-case scenario to the public	The communications strategy developed as part of this application will address and mitigate this issue.
Lack of engagement by Groups	Groups will be engaged with early in the process and a Terms of Reference document will be created as part of this application which notes the level of engagement and resource required by each group.

Funding request and use

CDEM resilience fund contribution	\$250,000
Local authority/organisation contribution	In-kind staff time for project leadership, and staff time (all participating CDEM Groups) for assistance in developing and reviewing the exercise
Other sources of funding or support	To be investigated for longer-term support as a result of this application.
Budget <i>[Please supply spreadsheet]</i>	
Applies if application exceeds \$100,000 over the life of the project	Do you wish to attend a hearing in support of this application? Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>

Application confirmation

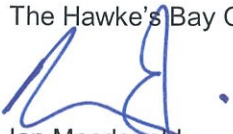
Approval of Chief Executive 

CDEM Group comment

This application follows on from the approved funding for 2018/19. This application allows for the project to be progressed and significantly – run an exercise to validate the response plan being developed.

This project is a collaborative effort between 5 CDEM Groups from BoP to Wellington to improve organisation and community resilience to one of New Zealand’s biggest risks being a mega-thrust earthquake and resulting tsunami along the Hikurangi Subduction Zone.

The Hawke's Bay CDEM Groups supports this work.



Ian Macdonald
Group Manager/Controller