



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	
Project title	Flood Resilience Uplift Project - Whangaehu Valley Pilot
Date of application	
Date of application	21 April 2016
Details on application	
Applicant	Rangitikei District Council
CDEM Group/s affected	Manawatu-Whanganui
Other local authorities, Groups or organisations supporting this proposal	Massey University, Horizons Regional Council, Ngati Apa (Whangaehu and Nga Wairiki Ki Uta), Kauangaroa Marae Committee, Ministry of Social Development, Te Puni Kokori
Project description	
<p>Executive summary <i>[200 words maximum description.]</i></p> <p>The Whangaehu River regularly has large floods, resulting in risk to human life and extensive property damage – notably dwellings and community facilities. Further development in these high-risk zones is effectively controlled, however finding solutions for existing residents and property owners is not straightforward. There is a range of options (e.g. localised flood protection works, raising floor levels and relocation) to reduce risk and increase resilience, although conventional community-wide flood protection measures are not considered practicable or affordable.</p> <p>To increase resilience through risk management and reduction requires a multi-agency approach and active community engagement that builds shared, evidence-based understanding of the problem, barriers and opportunities, and potential solutions. International and local experience shows this is a complex challenge in practice. Effective solutions are often elusive. This project will leverage this experience. A new UNESCO guide for community-based coastal hazard risk reduction will be adapted and applied to develop a locally appropriate community-based strategy for the Whangaehu River - putting communities at the centre of efforts to resolve this complex and sensitive issue.</p> <p>The proposed collaborative problem-solving approach aims to improve working relationships between community stakeholders, government and local authorities, elected representatives and iwi leaders, and researchers, so that difficult community decisions can be made, and resources allocated, to reduce flood risk and build resilience. Lessons learned can be applied to other NZ communities.</p>	
<p>Challenge/opportunity <i>[200 words maximum description.]</i></p> <p>The Whangaehu Valley has experienced four major flood events since 2004. On each occasion dwellings and community buildings (e.g. marae) had been inundated, resulting in considerable damage, remediation cost and displacement of local people for many weeks. The villages of Whangaehu and Kauangaroa are particularly susceptible to flooding from the Whangaehu River, yet a high level assessment following the 2004 floods indicated that community-wide flood protection works were not practicable (or affordable) for these communities.</p> <p>While well developed (and practised) community response plans are in place, the frequent devastation of dwellings and community buildings suggests more enduring solutions are required. There are options to eliminate or reduce the risk of harm to people and major damage to property, and these need to be identified and assessed (using an evidence-based approach) in conjunction with affected communities. Choosing a solution acceptable to all is not easy.</p> <p>This is an opportunity to adapt the UNESCO guidance developed by Professor Glavovic (Massey University) to identify/evaluate options to reduce flood risk in the Whangaehu Valley. The project will integrate international and local experience, including other research/studies, to build community-wide understanding about flood risk and craft resilience-building solutions that take into account stakeholder needs and interests, and potential contributions by Whangaehu communities, government and researchers. Lessons learned will have policy relevance and application in other NZ communities.</p>	
<p>Alignment with identified goals and objectives identified in the CDEM sector <i>[200 words maximum description.]</i></p> <p>This project aligns well with the National CDEM Strategy Goal 2, in particular improved co-ordination of research (as it builds on work related to impacts from sea-level change) and improved co-ordination of government policy (by evaluating options to address the issues faced by flood –prone communities). It also</p>	

aligns well with the National CDEM Plan: Goal 1 – “Increase community awareness, understanding, ... and participation in respect of CDEM”; Goal 2 – “Reduce the risks from hazards in NZ”. Alignment with the proposed Manawatu-Whanganui CDEM Group Plan is equally strong: Strategic Goal 1 – “... reducing the risks from hazards to acceptable levels”. The Principles and Drivers of the Proposed Plan refer to Best Practice and Agency Coordination, Collaboration and Risk Awareness, Avoidance and Management. The Proposed Plan’s objectives are: Improving understanding of hazards and their consequences; communicate risk to the community; adopt best practice; and work collaboratively with stakeholders for the long-term reduction of risks.

The MW CDEM Group Business Plan identified Flood Hazard Modelling and Hazard Research as key projects for 2016/17, thus aligning well with this proposed project.

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

The Whangaehu communities are not alone in New Zealand when it comes to flood risk and the need to find enduring solutions to the continued occupation of at risk flood areas. The methodology and model adapted for use and tested as part of this project will be transferrable for use by other CDEM Groups/Councils with their at-risk communities. A project report, together with a community engagement model and toolkit will be developed and made available to MCDEM, all CDEM Groups and member Councils. An online version will be available for download by community organisations. Presentations to all CDEM Groups (on a request basis) is included as part of the project delivery.

We envisage MCDEM having an oversight of the use of this toolkit and taking a lead role in communicating its value and use across the sector.

Project design

Project manager	Ross McNeil, Rangitikei District Council
Other project members	Ian Lowe (Horizons RC), Johan Cullis (Rangitikei DC), Representatives from local Iwi, Rangitikei Mayor (ex Officio), RDC Ward Councillor (ex Officio)
External providers/contractors	Bruce Glavovic/Senior Student(s), Massey University

Deliverables

Milestones	Date for completion	Cost
1. Project establishment	30 July 2016	\$2,000
2. Model/Toolkit adaptation/development	30 October 2016	\$8,000
3. Option identification/analysis & community engagement	30 April 2017	\$35,000
4. Project report, model/toolkit refinement/publication/dissemination & presentations, project wrap-up	30 June 2017	\$15,000

Identified risks


Risks	Suggested management
<ol style="list-style-type: none"> Government agencies don't engage Communities don't engage Hazard mitigation option identification/analysis incomplete 	Work through MCDEM to secure commitment Work through community leaders Agreement with Horizons and other supporting agencies to secure necessary resources

Funding request and use

CDEM resilience fund contribution	\$30,000
Local authority/organisation contribution	\$15,000 (RDC/Horizons)
Other sources of funding or support	\$15,000 (Massey University)
Budget <i>[Please supply spreadsheet]</i>	\$60,000

Application confirmation

2016/28

Approval of Chief Executive	 Ross McNeil
CDEM Group comment	
The MW CEG considered the draft application at its meeting on 27 April. CEG endorsed the application going forward to MCDEM for consideration, and in doing so noted that there are other vulnerable rural communities within the Group area that would benefit from the outcomes of the proposed project	

2016/28

27 April 2016

IN CONFIDENCE

CEO Ross McNeil
Rangitikei District Council
Private Bag 1102
Marton 4741

Dear Ross

MCDEM Resilience Fund Application

I am writing to you in my capacity as the Ministry of Social Development's Regional Commissioner for Taranaki, King Country and Whanganui to express to you my support for your application to the Ministry of Civil Defence and Emergency Management's (MCDEM's) Resilience Fund.

As you are aware, my brief extends across the Rangitikei district and I am very familiar with your various communities including the Whangaehu Valley community. As your application regarding the "Whangaehu Valley Flood Resilience Uplift Project" clearly states, this community has experienced four significant flood events since 2004 with the most recent occurring mid-2015.

The impact of these events upon this community and its' residents has been considerable. In terms of property damage, personal financial cost, injury, health and wellbeing; these events can and have taken their toll.

As a representative of an Agency that has a mutual role to play with your Council in any recovery phase after an event like those that have impacted the Whangaehu Valley community, I fully endorse the concepts and values identified in your application "to build [a] community-wide understanding about flood risk and craft resilience-building solutions" that will put the Whangaehu Valley community "at the centre of efforts to resolve this complex and sensitive issue".

I wish the Rangitikei District Council every success in this application to the MCDEM Resilience Fund and I look forward to working in partnership with you once the Whangaehu Valley Flood Resilience Uplift Project is implemented.

Yours sincerely

Gloria Campbell
Regional Commissioner for Social Development

2016/28

Flood Resilience Uplift Project: Whangaeahu Valley Focus - Budget							
<i>Based on a project duration of 12 months</i>							
Project Element/Phase	Resource	Number of Hours Required	Hourly Rate (Average)	Total Labour Costs	Other	Cost	TOTAL COST
Model/Toolkit Adaptation & Development							
	Massey	60	80	4800	Disbursements - travel, etc	500	5300
	Horizons	10	80	800			800
	RDC	10	80	800	Admin/Printing/Advertising/Meetings/etc	5000	5800
					<i>Total</i>		11900
Option Identification & Analysis							
	Massey	60	80	4800	Disbursements - travel, etc	1000	5800
	Horizons	90	80	7200	Printing, etc	2500	9700
	RDC	60	80	4800	Admin/Printing/Advertising/Meetings/etc	1000	5800
					<i>Total</i>		21300
Community Engagement							
	Massey	60	80	4800	Disbursements - travel, etc	1000	5800
	Horizons	60	80	4800			4800
	RDC	80	80	6400	Admin/Printing/Advertising/Meetings/etc	2400	8800
					<i>Total</i>		19400
Project Administration/Management/Reporting							
	Massey	10	60	600	Disbursements - travel, etc	1000	1600
	Horizons	10	80	800			800
	RDC	50	80	4000	Admin/Printing/Advertising/Meetings/etc	1000	5000
					<i>Total</i>		7400
		TOTAL HOURS		TOTAL LABOUR COSTS		TOTAL OTHER COSTS	TOTAL PROJECT COST
ESTIMATED TOTAL PROJECT HOURS/COSTS		560		44600		15400	60000
Horizons Staff Hours	170						
RDC Staff Hours	200						
Massey Hours	190						
TOTAL HOURS	560						

