



Horizons Regional Council  
Private Bag 11025  
Manawatu Mail Centre  
Palmerston North 4442

23 July 2014

John Hamilton  
Director  
Ministry of Civil Defence & Emergency Management  
PO Box 5010  
WELLINGTON 6145

PEM 01 01  
IL:RJP

Dear John

### **RESILIENCE FUND APPLICATIONS**

Please find enclosed three applications to the Resilience Fund as approved at our Coordinating Executive Group (CEG) meeting 16 July 2014.

The applications being:

1. EMIS Developmentg and Implementation;
2. Consistent Community Tsunami Signage and Public Information Project; and
3. Review and Updating of the Groups 2005 Risks & Responsibilities Report.

I would like to acknowledge Ian Wilson's assistance in advising and supporting CEG in regards to the process and preparation of the applications for submission.

Yours sincerely

Ged Shirley  
**CHAIRPERSON**  
**CORDINATING EXECUTIVE COMMITTEE**

Encl Resilience Fund Applications:

1. EMIS Development & Implementation
2. Consistent Community Tsunami Signage and Public Information Project; and
3. Review and Updating of the Groups 2005 Risks & Responsibilities Report.





## CDEM Resilience Fund project application form

Application for CDEM Resilience Collaborative fund approval	
Project title	EMIS Development & Implementation
Date of application	16 July 2014
Details on application	
Lead local authority	Horizons Regional Council
CDEM Group	Manawatu-Wanganui
Other local authorities or Groups supporting the proposal	Members of the Manawatu-Wanganui, Taranaki and Hawkes Bay CDEM Groups
Project description	
<p><b>Executive summary:</b> This application seeks continued funding for the Manawatu-Wanganui CDEM Group to engage an EMIS Trainer/Developer for a further 12 month period over the 2015-2016 financial year to continue the further development, implementation and training of EMIS within the Manawatu-Wanganui, Taranaki, Hawkes Bay, and possibly (TBC) the Wellington CDEM Groups. .</p> <p><b>Background</b> The Manawatu-Wanganui CDEM Group applied to the 2014-2015 round of Resilience Funding for the sum of \$100,000 to engage an EMIS Developer on a 12 month fixed term basis to assist in the development, implementation and training of EMIS within the Group.</p> <p>On considering that application MCDEM approved the application conditional upon the application being revised to include the Taranaki, Hawkes Bay and possibly the Wellington CDEM Groups. The sum approved was increased to \$120,000.</p> <p>This application seeks funding for the continued engagement of those services.</p>	
<p><b>Problem/Opportunity:</b> The development and enhancement of EMIS by the Ministry of Civil Defence Emergency Management has been ongoing for sometime now and is starting to gain traction across the Manawatu-Wanganui, Taranaki and Hawkes Bay CDEM Regions. The Groups have been working collaboratively to develop EMIS systems and procedures to ensure that a common mode of operation is developed to ensure compatibility of systems and procedures across the three Groups.</p> <p>Individually, the three Groups have also been working locally to ensure that EMIS is integrated into local CDEM systems and procedures. As EMIS evolves it is considered imperative that opportunities for collaboration continue to ensure that the resilience of the community remains a priority for the three Groups.</p> <p>It is considered that the further engagement of an EMIS Trainer/Developer over the 2015-2016 year will ensure that the three Groups remain aligned in terms of EMIS systems and procedures.</p>	
<p><b>Alignment with identified goals and objectives:</b> The implementation, development, training and use of EMIS is identified in this Groups 2013-2018 Business Plan and forms part of a key Operational Capability output of the Plan. EMIS is further identified as a specific output in the Manawatu-Wanganui Groups 2014-2015 Annual Business Plan regarding resource management and the integration of EMIS.</p>	
<p><b>Dissemination of benefits to sector:</b> The engagement of the trainer/developer across 3 (possibly 4) CDEM Groups will result in a</p>	

level of standardisation that would not be achieved if each Group was to rely on doing its own implementation. A key advantage to this joint approach will be that of each Group knowing that if required to assist a neighbouring Group that there will be commonality in terms of processes and procedures.

**Project design**

Project manager	Ian Lowe – Manager Emergency Management Horizons Regional Council
Other project members	<ul style="list-style-type: none"> <li>• Evan Lloyd – Risk Management Coordinator Horizons Regional Council (Group EMIS Development).</li> <li>• Shane Briggs – Taranaki CDEM Group.</li> <li>• Nigel Simpson – Hawkes Bay CDEM Group</li> </ul>
External providers/contractors	TBC

**Deliverables**

Milestone	Date for completion	Cost
When funding available	Completion 31 June 2016 – Invoicing to MCDEM to be at least quarterly during 2015-16.	\$120,000

**Identified risks**

Risk	Suggested management
<ol style="list-style-type: none"> <li>1. An appropriate person is not immediately available.</li> <li>2. Time taken to recruit an appropriate person.</li> </ol>	<ol style="list-style-type: none"> <li>1. Consider engagement of current EMIS developer by the Manawatu-Wanganui Group at the termination of the 2014-2015 EMIS agreement.</li> </ol>


**Funding request and use**

CDEM resilience fund contribution	\$120,000
Local authority contribution	Overnight accommodation/travel and meals as required
Other sources of funding	Nil
Expenditure	\$120,000

**Application confirmation**

Approval of Chief Executive	
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**CDEM Group comment**

Comment	<i>A crucial project for helping to further embed this system &amp; approach across the Central NI.</i>
Approval of Coordinating Executive Group Chair	



## CDEM Resilience Fund project application form

Application for CDEM Resilience Collaborative fund approval	
Project title	Manawatu-Wanganui CDEM Group Consistent Community Tsunami Signage and Public Education Project
Date of application	16 July 2014
Details on application	
Lead local authority	Horizons Regional Council
CDEM Group	Manawatu-Wanganui
Other local authorities or Groups supporting the proposal	Members of the Manawatu-Wanganui CDEM Group
Project description	
<p><b>Executive summary:</b></p> <p>This application seeks funding to produce consistent community Tsunami hazard signage to provide public information and education across the main risk areas of those Territorial Authorities with coastal tsunami risk within the Manawatu-Wanganui CDEM Group area. The signage would be produced in the formats as prescribed in TS01/08 – National Tsunami Signage.</p> <p>To support the erection of the Tsunami Signage a Public Education program including the following elements will be implemented:</p> <ol style="list-style-type: none"><li>1. Community engagement meetings in the communities affected regarding Tsunami Hazard and the proposed Tsunami Signage.</li><li>2. Media programme with information to support the Tsunami Sign project (via local community media agencies).</li><li>3. Production of district specific Tsunami evacuation brochures aimed at visitors to the area (for camping grounds, beach community halls etc.). This will be based upon the information displayed on local Tsunami Information Signs.</li><li>4. Incorporation on Tsunami evacuation information into future Community Response Plans.</li></ol> <p>The Manawatu-Wanganui CDEM Group Consistent Community Tsunami Signage and Public Education Project is designed to enhance community resilience by clearly identifying the coastal Tsunami hazard and providing clear and simple information about what to do to avoid the coastal Tsunami risk. A benefit of the project is that consistent signage along the coast will assist to raise the general awareness of hazards amongst the community and the Information Boards will display information on how the community can seek more information to enhance their own resilience.</p> <p>The Tsunami signage and mapping can be incorporated into future Community Resilience Plans as an established part of each coastal community.</p> <p>Refer Annex A for details of the proposal.</p>	

**Problem/opportunity:**

Problem: 'The CDEM Group is vulnerable to tsunami hazards on both the east and west coasts' (CDEM Group Plan 2009-2014, p28). The recent update of New Zealand's Tsunami Hazard (produced by GNS) has highlighted the vulnerability of our coasts to Tsunami. Within the Manawatu-Wanganui CDEM Group area **there is currently no signage giving information to the identified at risk communities.**

Opportunity: Undertaking a Group wide project that has consistent messages and signage relating to local Tsunami risk and outlining Tsunami evacuation routes is a highly visible and simple way to increase the resilience of those living in or visiting the coastal communities within the Manawatu-Wanganui CDEM Group area. Recent memory Tsunami events internationally (Indonesia and Japan) has demonstrated the risk of unprepared coastal communities to Tsunami.

**Alignment with identified goals and objectives:**

This project aligns with the following National Civil Defence Emergency Management Strategy Goals and Objectives:

- **Goal One: Increasing community awareness, understanding, preparedness and participation in civil defence emergency management.**
  - Objective 1A: Increasing the level of community awareness and understanding of the risks from hazards.
  - Objective 1B: Improving individual, community and business preparedness.
  - Objective 1C: Improving community participation in CDEM.
  
- **Goal Two: Reducing the risks from hazards to New Zealand.**
  - Objective 2A: Improving the coordination, promotion and accessibility of CDEM research.
  - Objective 2B: Developing a comprehensive understanding of New Zealand's hazardscape.
  - Objective 2C: Encouraging all CDEM stakeholders to reduce the risks from hazards to acceptable levels.



This project aligns with three of the Manawatu-Wang CDEM Group's goals (CDEM Group Plan 2009-2014, p4):

1. **Increasing community awareness, understanding, preparedness and participation in CDEM.** This project will give a very visible, permanent reminder of Tsunami hazard and promotes the development of resilience amongst local communities in relation to what actions to undertake when a Tsunami is possible or imminent.
2. **Reducing the risks from hazards in the region.** By providing clear, simple and visible information on the Tsunami Hazard and evacuation routes the risk, to individual life, from the hazard will be reduced through public awareness.
3. **Enhancing the Regions ability to respond to emergencies.** By enhancing public awareness of the Tsunami hazard and enabling individual response to National Tsunami Warnings or response to a local seismic event those that evacuate early will reduce the emergency response required during a Tsunami event.

**Dissemination of benefits to sector:**

On completion of the project a report into the production and deployment of the Manawatu-Wanganui CDEM Group Consistent Community Tsunami Signage project will be produced so that other CDEM Groups can assess if a similar project would be of benefit in their own area.

Project design		
Project manager	Ian Lowe – Manager Emergency Management Office Horizons Regional Council	
Other project members	Matthew Smith – Emergency Manager, Wanganui District Council Ross Brannigan – Emergency Management Officer, Horowhenua and Manawatu District Councils, Paul Chaffe – Emergency Management Officer Rangitikei District Council Paddy Driver – Manager Resilience Tararua District Council	
External providers/contractors	<ul style="list-style-type: none"> <li>• RTL- Road Signs and Traffic Control Equipment Limited</li> <li>• External Graphic Design work for production of Tsunami Information Board artwork &amp; public information material.</li> </ul>	
Deliverables		
Milestone	Date for completion	Cost
<ul style="list-style-type: none"> <li>• Confirmation of Tsunami Hazard maps of the Region by GNS (in view of last years updated information)</li> <li>• Detail preparation of signage location maps by each District Council</li> </ul>	<p>March 2015</p> <p>April 2015</p>	<p>Estimated \$10k (Incl GST) (CDEMG Cost – internal project to update Tsunami Hazard maps)</p> <p>District and Regional Council Staff time – work to be undertaken by local EMO's and District Council Infrastructure Officers.</p>
<ul style="list-style-type: none"> <li>• Construction of Public Education plan to support the project</li> </ul>	<p>May/June 2015</p>	<p>Design of materials and print/media to support the project by Horizons Regional Council. Booking of media 'space' and production of brochures estimated at \$15K (incl GST). \$55K (incl GST)</p>
<ul style="list-style-type: none"> <li>• Production of signage by RTL</li> <li>• Erection of signage in the five District Council areas.</li> </ul>	<p>July-August 2015</p> <p>September 2015- March 2016</p>	<p>At cost to each District Council.</p>
Identified risks		
Risk	Suggested management	
<ul style="list-style-type: none"> <li>• Costs for infrastructure (posts etc.) for each Districts needs if existing infrastructure does not provide opportunity for signage attachment.</li> </ul>	<ul style="list-style-type: none"> <li>- Insert business cases into the 2015-2016 Annual Plan process as required once Resilience Funding approval for project given. Support proposals from the CDEMG level at each Annual Plan submission.</li> <li>- CDEM Group members to support additional infrastructure costs as a contribution to the project.</li> <li>- Publicise the erecting of the Tsunami Signage in each District through a GDEM Group</li> </ul>	

<ul style="list-style-type: none"> <li>Public education/information support for project</li> </ul>	<p>coordinated Public Education Plan – local advertising, community group meetings, council publications etc. to prepare the community for the erection of the signage and to provide Tsunami Hazard response information concurrently.</p> <ul style="list-style-type: none"> <li>- Production of district specific Tsunami evacuation brochures aimed at visitors to the area (for camping grounds, beach community halls etc.). Based upon the information displayed on local Tsunami Information Signs.</li> <li>- Incorporation of Tsunami evacuation information into future Community Response Plans.</li> </ul>
<b>Funding request and use</b>	
CDEM resilience fund contribution	\$70,000 (incl GST)
Local authority contribution	<ul style="list-style-type: none"> <li>Confirmation of Tsunami Hazard maps of the Region by GNS (in view of last years updated information) - \$10k, funded by Horizons Regional Council on behalf of the CDEMG.</li> <li>Public Education Management by Horizons Regional Council and District Councils.</li> <li>Additional infrastructure required for sign erection. (Horizons and/or District Councils).</li> <li>Detail CDEM and Infrastructure planning for signage location mapping.</li> <li>Ongoing maintenance of signage by District Councils (vested asset).</li> </ul>
Other sources of funding	Nil.
Expenditure	See Annex A for the Proposal funding table (detail).
<b>Application confirmation</b>	
Approval of Chief Executive	
<b>CDEM Group comment</b>	
Comment	<p><i>This project is important for helping to add value to the money already spent on quantifying this hazard - incl public education/awareness.</i></p>
Approval of Coordinating Executive Group Chair	



**Manawatu-Wanganui CDEM Group  
Consistent Community Tsunami Signage and Public Education Project Outline**

## **1. Background**

Five of the seven Local Authorities within the Manawatu-Wanganui CDEM Group area have coastal communities vulnerable to the New Zealand Tsunami hazard. Recent international events (the Indonesian Boxing Day Tsunami and the Japanese Tsunami) have demonstrated the vulnerability of coastal communities to large Tsunami events.

The recent Review of Tsunami Hazard in New Zealand, undertaken by GNS Science, has reinforced the risk to the coastal communities within the Manawatu-Wanganui Region. On both the West and East Coasts the risk to the Manawatu-Wanganui Region has increased.

Providing consistent community Tsunami signage across the CDEM Group area will encourage public understanding of the Tsunami hazard and provide clear, visible marking of Tsunami evacuation routes.

A Public Education Plan to support the erection of the Tsunami Signage, provide information for visitors to coastal areas and support future Community Response Plans will be undertaken as a key element of the project.

This project will be undertaken collaboratively by the Territorial Authorities with coastal communities in the CDEM Group area supported by the Regional Council and the CDEM Group. It will be project managed through the Emergency Management Office Horizons Regional Council.

## **2. Locations for Consistent Community Tsunami Signage within the Manawatu-Wanganui CDEM Group area:**

### **Horowhenua District Council:**

- Foxton Beach
- Waitarere
- Hokio
- Ohau
- Kuku
- Waikawa

### **Manawatu District Council:**

- Himatangi Beach
- Tangimoana

### **Rangitikei District Council:**

- Parewanui
- Turikina Beach

### **Wanganui District Council:**

- South Beach (Wanganui)
- Castlecliff and Heads Rd (Wanganui)
- Kai-Iwi Beach

### **Tararua District Council**

- Herbertville
- Akitio

### 3. Outline of Proposal

The proposal is based around the purchase of Tsunami Signage and its associated mounting system to allow signage to be attached to existing infrastructure (power poles etc.). Road signs and Traffic Control Equipment Limited (RTL), who is the major national producer of roading signs, have quoted for the cost of producing the signs to the standard. (Note all prices are exclusive of GST unless noted otherwise).

Quantities of the different types of signs required have been estimated by local Emergency management staff and are site specific (see Appendix 1). There is significant variation in the quantity of signs required for each location based on variables such as shore frontage, public gathering areas where Information Boards can be placed, distance of evacuation routes to be covered and other local variables.

The following signs from the National Tsunami Signage technical Standard [TS01/08] are proposed:

Sign Description	Estimated cost per unit	Notes
Generic Tsunami Evacuation Zone Sign	\$54.00	For planning purposes 1 sign per 300m of marine frontage used.
Information Board 1000mm x 720mm (Medium)	\$160.00	This size is a standard sign size for roading type signs (advice from RTL)
Information Board 2000mm x 1450mm (Large)	\$534.00	This size is a standard sign size for roading type signs (advice from RTL)
Generic Tsunami Evacuation Route Sign	\$65.00	For planning purposes 1 sign per 300m of evacuation route used.
Tsunami Safe Location Sign	\$46.00	For planning purposes one or two signs per identified Tsunami Safe Location.

In addition the following sign mounting equipment would be purchased:

Description	Estimated cost per unit	Notes
Universal Clamps UCC001	\$5	2 per Evac Zone, Evac Route and Safe Location Sign and 4 per Info Board
Band it strapping 16mm (30m roll)	\$80.00	Qty
Band it tool Signfix Code	\$196.00	X 2
Band it Buckles 16mm (pkt 100)	\$46.00	Qty

Each Territorial authority would be responsible for:

- The time/labor costs associated with erecting the signs.
- Detailed planning of sign locations. (note: to allow exact placement and to allow a minimum initial 'on hand' replacement stock to be held) a 10% allowance for the following signs is requested as part of the proposal:
  - Generic Tsunami Evacuation Zone Sign
  - Generic Tsunami Evacuation Route Sign
  - Tsunami Safe Location Sign
- Specific location infrastructure to mount signs to if none exists. The CDEM Group will support locations specific infrastructure costs as a contribution to the project.
- On-going upkeep and maintenance if the signage (vested assets).

Information Signs:

- Two sizes have been priced:

- 1000mm x 720mm (Medium) \$160.00 ea.
  - 2000mm x 1450mm (Large) \$534.00 ea.
- The prices above are for the production of the signs only. Graphic design for the signs has been estimated at:
  - \$700 for initial template creation (10 x hours @ \$70.00/hr.)
  - \$210 for each additional sign (3 x hours @ \$70.00/hr.)

**Proposal funding table (detail):**

Item Description	Estimated cost per unit	Qty Estimated Required	+10% for detail sighting	\$ Total	Notes
Generic Tsunami Evacuation Zone Sign	\$54.00	69	76	\$ 4,104	For planning purposes 1 sign per 300m of marine frontage used.
Information Board 1000mm x 720mm (Medium)	\$160.00	4	-	\$ 640	
Information Board 2000mm x 1450mm (Large)	\$534.00	34	-	\$18,156	
Generic Tsunami Evacuation Route Sign	\$65.00	130	143	\$ 9,295	For planning purposes 1 sign per 300m of evacuation route used.
Tsunami Safe Location Sign	\$46.00	40	44	\$ 2,024	For planning purposes one or two signs per identified Tsunami Safe Location.
Universal Clamps UCC001	\$5		678	\$ 3,390	2 per Evac Zone, Evac Route and Safe Location Sign and 4 per Info Board
Band it strapping 16mm (30m roll)	\$80.00	6		\$ 480	
Band it tool Signfix Code	\$196.00	2		\$ 392	
Band it Buckles 16mm (pkt 100)	\$46.00	9		\$ 414	
Graphic Design initial template set up (Info Boards)	\$700	1		\$ 700	\$700 for initial template creation (10 x hours @ \$70.00/hr.)
Graphic Design each specific info board	\$210	38		\$ 7,980	\$210 for each additional sign (3 x hours @ \$70.00/hr.)
Design and implementation of Public Education Plan to support the Project	\$12,750			\$12,750	Managed by Horizons Regional Council and supported by District Councils.
TOTAL (excl GST)				\$59,254	

TOTAL Incl GST (15%)				\$69,711	
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APPENDIX 1

Estimated Signage Requirements by Territorial Authority and location

Horowhenua District Council:

At Tsunami Risk Location Name: <u>Foxton Beach</u>		
<u>Sign Type</u>	<u>Number Required</u>	<u>Notes:</u>
Information Board LARGE	6	
Generic tsunami Evacuation route signage	15	

At Tsunami Risk Location Name: <u>Waitarere</u>		
<u>Sign Type</u>	<u>Number Required</u>	<u>Notes:</u>
Information Board LARGE	4	
Generic tsunami Evacuation route signage	10	

At Tsunami Risk Location Name: <u>Hokio</u>		
<u>Sign Type</u>	<u>Number Required</u>	<u>Notes:</u>
Information Board LARGE	1	
Generic tsunami Evacuation route signage	5	

At Tsunami Risk Location Name: <u>Ohau</u>		
<u>Sign Type</u>	<u>Number Required</u>	<u>Notes:</u>
Information Board LARGE	1	

At Tsunami Risk Location Name: <u>Kuku</u>		
<u>Sign Type</u>	<u>Number Required</u>	<u>Notes:</u>
Information Board LARGE	1	

At Tsunami Risk Location Name: <u>Waikawa</u>		
<u>Sign Type</u>	<u>Number Required</u>	<u>Notes:</u>
Information Board LARGE	3	
Generic tsunami Evacuation route signage	8	

**Manawatu District Council:**

<b>At Tsunami Risk Location Name: <u>Himatangi Beach</u></b>		
<b><u>Sign Type</u></b>	<b><u>Number Required</u></b>	<b><u>Notes:</u></b>
Information Board LARGE	3	
Generic tsunami Evacuation route signage	8	

<b>At Tsunami Risk Location Name: <u>Tangimoana</u></b>		
<b><u>Sign Type</u></b>	<b><u>Number Required</u></b>	<b><u>Notes:</u></b>
Information Board LARGE	3	
Generic tsunami Evacuation route signage	7	

**Rangitikei District Council**

<b>At Tsunami Risk Location Name: <u>Parewanui Rd</u></b>		
<b><u>Sign Type</u></b>	<b><u>Number Required</u></b>	<b><u>Notes:</u></b>
Generic tsunami evacuation zone sign	2	
Information Board MEDUIM	2	
Generic tsunami Evacuation route signage	6	
Safe location for walking evacuation routes.	6	Pedestrian and Vehicle locations

<b>At Tsunami Risk Location Name: <u>Turikina Beach</u></b>		
<b><u>Sign Type</u></b>	<b><u>Number Required</u></b>	<b><u>Notes:</u></b>
Generic tsunami evacuation zone sign	2	
Information Board MEDUIM	2	
Generic tsunami Evacuation route signage	6	
Safe location for walking evacuation routes.	6	Pedestrian and Vehicle locations

**Wanganui District Council**

<b>At Tsunami Risk Location Name: <u>Putiki and South Beach (Wanganui)</u></b>		
<b><u>Sign Type</u></b>	<b><u>Number Required</u></b>	<b><u>Notes:</u></b>
Generic tsunami evacuation zone sign	17	
Information Board LARGE	3	
Generic tsunami Evacuation route signage	17	
Safe location for walking evacuation routes.	6	Described as Assembly points (Putiki) in the

		Wanganui Tsunami Threat Plan
<b>At Tsunami Risk Location Name: Castlecliff, Balgownie and Gonville South (Wanganui)</b>		
<b><u>Sign Type</u></b>	<b><u>Number Required</u></b>	<b><u>Notes:</u></b>
Generic tsunami evacuation zone sign	29	
Information Board LARGE	6	
Generic tsunami Evacuation route signage	38	
Safe location for walking evacuation routes.	16	Described as Assembly points in the Wanganui Tsunami Threat Plan

<b>At Tsunami Risk Location Name: Kai-Iwi Beach</b>		
<b><u>Sign Type</u></b>	<b><u>Number Required</u></b>	<b><u>Notes:</u></b>
Generic tsunami evacuation zone sign	3	
Information Board LARGE	3	
Generic tsunami Evacuation route signage	4	
Safe location for walking evacuation routes.	6	Described as Assembly points in the Wanganui Tsunami Threat Plan

**Tararua District Council**

<b>At Tsunami Risk Location Name: Herbertville</b>		
<b><u>Sign Type</u></b>	<b><u>Number Required</u></b>	<b><u>Notes:</u></b>
Generic tsunami evacuation zone sign	8	
Generic tsunami Evacuation route signage	8	

<b>At Tsunami Risk Location Name: Akitio</b>		
<b><u>Sign Type</u></b>	<b><u>Number Required</u></b>	<b><u>Notes:</u></b>
Generic tsunami evacuation zone sign	8	
Generic tsunami Evacuation route signage	10	







## CDEM Resilience Fund project application form

Application for CDEM Resilience Collaborative fund approval	
Project title	Review and updating of the 2005 Risks and Responsibilities Report (Lifelines)
Date of application	16 July 2014
Details on application	
Lead local authority	Horizons Regional Council
CDEM Group	Manawatu-Wanganui
Other local authorities supporting the proposal	Members of the Manawatu-Wanganui CDEM Group
Project description	
<p><b>Executive summary:</b> This application seeks funding support from the Resilience Fund to review and update the original Risks &amp; Responsibilities document released in January 2005. The focus on the 2005 document was in regards to seismic, volcanic and flooding hazards and was commenced prior to the Civil Defence Emergency Management (CDEM) Act 2002 came into force. It is now considered timely that any review of the current information contained within the document is based upon an all hazards approach aligned to the requirements of recognised CDEM planning doctrine across the 4 R's of CDEM.</p>	
<p><b>Problem/Opportunity:</b> The Manawatu-Wanganui Region is one of the most tectonically active parts of New Zealand, it has an extensive network of river systems and is home to mainland New Zealand's most active volcano. These features gave rise to the three hazard aspects studied by the 2005 project, Seismic, Flooding and Volcanic hazards.</p> <p>The Manawatu-Wanganui Region is one that depends on each other and our infrastructure for our health and prosperity which enhances community resilience. Included in our infrastructure are 'lifelines' assets, which provide services such as transport (road, rail, sea and air), water supply, wastewater, drainage, energy generation and distribution and telecommunications. These assets typically traverse large geographical areas and are inherently vulnerable to natural hazards.</p> <p>It is now opportune to revisit the context of the original report to review its initial findings and to take a more all hazards holistic approach across the 4 R's of the CDEM continuum.</p>	
<p><b>Alignment with identified goals and objectives:</b> A review of the document aligns well to the Vision of the Group which is <i>"To build a resilient and safer region with communities understanding and managing their hazards and risks"</i>. In addition to this the Group Plan notes a major risk in regards to lifeline utilities failure is that of electricity failure given that the Region is a central corridor for the national electricity grid. The critical consequences of electricity failure from a natural hazard event are mainly social and economic.</p> <p><b>Social:</b></p> <ul style="list-style-type: none"> <li>• Impacts to health care in homes &amp; hospitals where power is critical such as dialysis &amp; surgery;</li> <li>• Inability to cook food &amp; loss of perishable food stocks;</li> <li>• Security issues due to lack of urban lighting;</li> <li>• Impact to other lifeline services that rely on power such as water supplies, fuel &amp; communications equipment.</li> </ul> <p><b>Economic</b></p> <ul style="list-style-type: none"> <li>• Impacts on businesses &amp; industry such as farming;</li> <li>• Impacts on transportation networks such as roads &amp; railways.</li> </ul>	

**Dissemination of benefits to sector:**

A better understanding of the impacts on lifelines from an "all hazards" perspective will in turn not only improve the wider understanding of the risks and vulnerabilities faced by the regions communities but also by that of the Group, and its neighbouring Groups. Given the cross boundary dependencies created by the central north island utilities corridor it is considered that any updating of the 2005 Risk and Responsibilities Report will also be of value to the CDEM Groups bordering on the Manawatu-Wanganui Region.

**Project design**

Project manager	Ian Lowe – Manager Emergency Management Horizons Regional Council
Other project members	<ul style="list-style-type: none"><li>• Manawatu-Wanganui Lifelines Advisory Group</li><li>• Lifelines Utility Coordinators from respective TA's within the Region.</li><li>• TA CDEM Managers.</li></ul>
External providers/contractors	TBC

**Deliverables**

Milestone	Date for completion	Cost
When funding available	Completion 31 June 2016 – Invoicing to MCDEM to be at least quarterly during 2015-16.	\$40,000 contribution from Resilience Fund, \$30,000 combined contribution from CDEM Group & Lifelines Advisory Group members

**Identified risks**

Risk	Suggested management
<ol style="list-style-type: none"><li>1. An appropriate person/agency is not immediately available to undertake the review.</li><li>2. Significant emergency event resulting in changing hazardscape.</li></ol>	<ol style="list-style-type: none"><li>1. Consider seeking extension to timeframe for completion of report.</li><li>2. Consider requirement to re-assess project brief.</li></ol>

**Funding request and use**

CDEM resilience fund contribution	\$40,000
Combined Local Authority & Lifelines Advisory Group member contributions	\$30,000
Other sources of funding	As above
Expenditure	\$70,000

**Application confirmation**

Approval of Chief Executive	
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**CDEM Group comment**

Comment	<i>A key project that in partnership with the 'Fund' will improve the region's resilience.</i>
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Approval of Coordinating Executive Group Chair	
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