



CDEM Resilience Fund project application form

Application for CDEM Resilience Collaborative fund approval	
Project title	Porting Alerting Platform iPhone app to other native smartphone platforms
Date of application	28 February 2013
Details on application	
Lead local authority	Auckland Council
CDEM Group	Auckland
Other local authorities or Groups supporting the proposal	Wellington, Canterbury, Southland
Project description	

Executive summary

Auckland Council have developed a cloud-based alerting platform to provide a single point of entry for public alerts via web, social and mobile apps.

The system provides the following key functionality:

CDEM staff can enter alert information via a simple & secure web interface, tag it based on incident type, geographic location & coverage radius, and include suggested advice & information.

Alert information can automatically be syndicated via an interface to CDEM & public websites and social networks.

An advanced iPhone app provides users with the ability to view this information and receive 'push' notifications when an alert is received. Special resilience engineering manages connection issues and synchronises data whenever connections are available to minimise the effects of network congestion & outages.

This app stores general content information (eg: 'Get Ready') and links this to events based on CDEM staff recommendations in the alert (and this is available on the phone should the connections go down)

The system also provides a secure private social network designed to allow friends & family to connect and share their location and current status in an emergency.

The system is designed to integrate with public social networks (Facebook, Google+, Twitter) to allow users to have a single login, and easily share alerts and information on these networks.

This application seeks funding to port the advanced native iPhone app to other popular smartphones, including those based on Android and Windows phone operating systems.

<p>Problem/opportunity</p> <p>The iPhone represented the ideal target for the development of the first application of the alerting platform for a number of reasons. This app is almost ready for deployment. However, it would be advantageous to port this application to other popular smartphone platforms to maximise the number of people who will be tapped into the service.</p> <p>The current iPhone app provides advanced capabilities that take advantage of the full capabilities of the alerting platform, as well as the iPhone device. The app is developed as a 'native' app, meaning that it has been written in the language used by the iPhone's iOS operating system. This has enabled the development of performance and resilience capabilities that go far beyond what has been done with simple "html5" style web-mobile apps which was also launched this year which linking into a text messaging alert system.</p> <p>This application seeks to 'port' this application, along with it's advanced capabilities and resilience to other popular smartphone platforms. This process involves rewriting the app in the 'native' language of these platforms.</p> <p>This application is for the development of two additional native apps for:</p> <p>Android 2.3+ based smartphones Windows Phone 7/8 based smartphones</p> <p>This industry moves quickly. Additional smartphone platforms may become important and native apps can easily be developed using these software components as demand arises.</p> <p><i>It should also be noted that mobile-optimised web pages (and 'installable app' versions of these) can also be developed for the CDEM websites. These can provide basic access to alerting information. However, they cannot provide key functionality such as: targeted push alerts, private social networking connections, and offline / network resilience capabilities. These mobile-optimised pages should be developed to provide basic browser access for people who are browsing CDEM websites from lower capability mobile devices or who don't yet have the advanced app installed, but these should not be confused with the advanced, socially integrated and resilient apps this application is for.</i></p>	
<p>Alignment with identified goals and objectives</p> <p>National Strategy Goal 1: To increase community awareness, understanding and participation in CDEM. Auckland CDEM Group Plan Goal 2: To increase community awareness, understanding and participation in CDEM. Objective 2: Improve the level of business and community awareness and preparedness through public education and consultation. Response Goal 3: Ensuring an effective response capability Objective 1: Provide effective warning systems</p>	
<p>Dissemination of benefits to sector</p> <p><i>* to reach a wider number of people who use non-apple devices</i></p>	
<p>Project design</p>	
<p>Project manager</p>	<p>Clive Manley</p>

Other project members	Bruce Pepperell, Neil Cruickshank	
External providers/contractors	Selective tendering process	
Deliverables		
Milestone	Date for completion	Cost
Contract documents preparation	30 August 2013	See below
Selective tendering process	30 October 2013	
Delivery of Android version	30 March 2014	
Delivery of Windows 7/8 version	30 May 2014	
Identified risks		
Risk	Suggested management	
Vendor does not deliver app fit for purpose.	Select vendor with track record and demonstrating value for money	
Funding request and use		
CDEM resilience fund contribution	\$75,000	
Local authority contribution	Staff time and previous development cost of Auckland App	
Expenditure	Estimate of implementation costs (excluding GST):	
	Adroid version	\$35,000
	Windows phone 7/8 version	\$40,000
	Total Development:	\$75,000
Approval of Chief Executive		
CDEM Group comment		
Comment	Roll out nationally would provide a more cost effective and consistent rollout	
Approval of Coordinating Executive Group Chair		