

Ministry of Civil Defence & Emergency Management

Te Rākau Whakamarumaru

MCDEM Update

Presenter: Mark Constable

8 November 2012

2012 National Lifelines Forum



Review of Christchurch Earthquake response

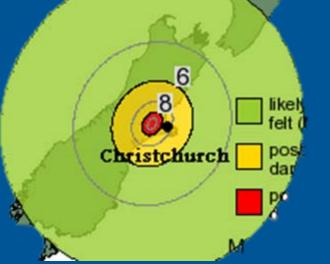
• Lifeline utility coordination arrangements

Emergency Management Information System

National CDEM Fuel Plan



Review of the CDEM response to the 22 February 2021 Christchurch Earthquake



About the review

MCDEM initiated the independent review

 Focused on the CDEM response and how well the National CDEM Plan worked

 TOR were noted by Cabinet in November 2011

Review Process

- Commenced November 2011
- More than 200 people interviewed
- Draft report was provided to the Director 30 April 2012. Final review received on 30 June 2012
- Director forwarded the review to the Minister of Civil Defence for consideration by Cabinet

Recommendations

• Total: 108

• Major: 6

• Related to lifelines: 22

Major Recommendations

- 1. That territorial local authorities no longer have power to control the response to emergencies, but that they still retain the power to declare them.
 - MCDEM to work with CDEM Groups that need strengthening
- That a cadre of highly trained emergency managers from organisations across the country be established to lead and control emergency responses.
 - MCDEM to explore options
- 3. That new structures be developed to modify CIMS so as to better link the response to emergencies with the community and community organisations.
 - CDEM to link emergency response systems more closely with communities

Major Recommendations

- 4. That the preservation of business and jobs be made a higher priority during response to emergencies, and links between response and businesses improved.
 - MCDEM to review arrangements to ensure a higher priority is given
- 5. That consideration be given to locating MCDEM within the Department of Prime Minister and Cabinet so as to provide a better platform for launching responses.
 - MCDEM to stay a business unit of Department of Internal Affairs
- That MCDEM continue to promote a culture of preparedness for major disasters amongst all sectors and be resourced appropriately to do so.
 - MCDEM to continue to promote a culture of preparedness

Lifelines Recommendations

Lifeline recommendations are focused on matters relating to:

- BCM around water and waste water
- Coordination between electricity and telecommunication companies
- Protocols regarding electricity disconnection
- Port, airport and rail emergency planning
- Fuel distribution during restrictions
- LUC training and their links with emergency operations centres
- The role of MBIE in lifelines coordination
- Evaluation of the resilience of infrastructure providers in the main centres of New Zealand

Corrective Action Plan Process

 MCDEM is coordinating an interagency CAP developed with participating government agencies

 Envisaged that the CAP will inform agency work programmes (2012 – 2014)

 Report back to the Cabinet Committee for Canterbury Earthquake Recovery with the corrective action plan in November

CAP Themes

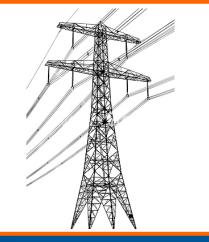
- 1. Management & Control
- 2. Emergency Operations Centres & staffing
- 3. Emergency welfare arrangements
- 4. First Level ('Front line') response
- 5. Lifelines
- 6. Building Management
- 7. Logistics
- 8. Information Management
- 9. Public information
- 10.Community preparedness & response

Theme Plans

- Coordinating agency
- Applicable recommendations
- Issues
- Actions
- Projected time frames

Lifeline Utility Coordination

Arrangements for responses



Lifeline Utilities Response (The National CDEM Plan)

- Manage your response
- Activate plans & coordinate with the lead agency
- Conduct impact assessment
- Maintain or restore services
- Communicate (with lead agencies, other responders, and the public)
- Coordinate with CDEM to provide integrated and coordinated inter-agency responses

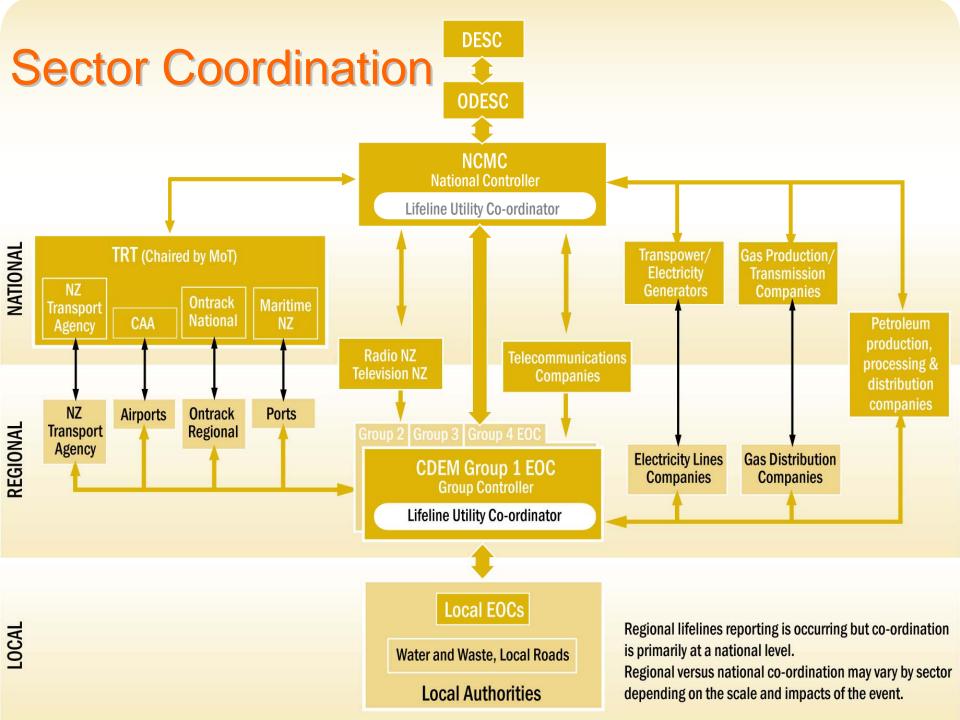
Expectations

- Establish contact with and provide information on network status the CDEM Group ECC
 - the scale & impact on networks
 - major disruptions (incl. users affected)
 - issues requiring the support for access/tasking prioritisation
 - estimated restoration times
 - priority areas of response
 - alternative solutions available to users (where appropriate);
 - public information to be promulgated;
 - requests for support or specific information.
- Receive CDEM Group reports / action plans

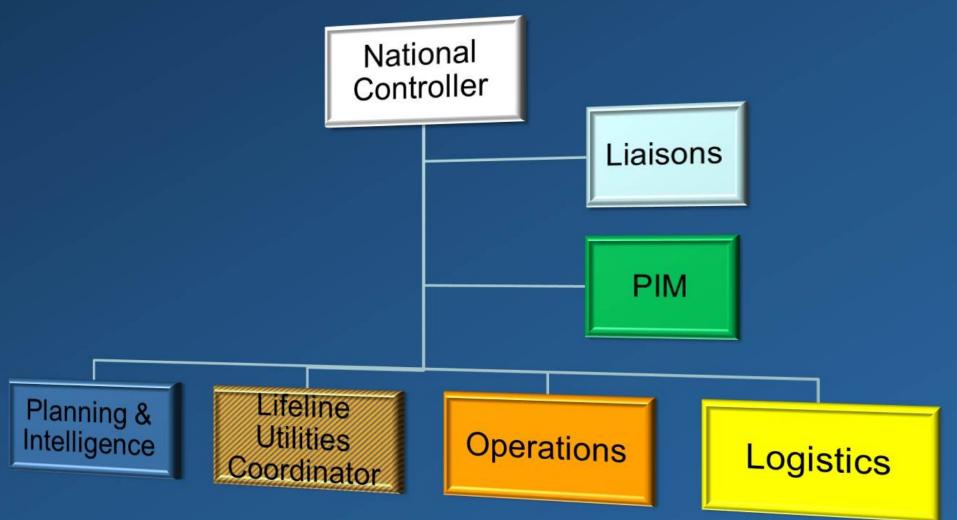
Action CDEM requests for prioritisation of services/restoration

Response Hierarchy





National Crisis Management Centre



Lifelines Coordination

- Facilitate (lifeline utility) impact assessments
- Intelligence analysis of lifeline utility information
- Provide advice to the Group Controller
 - regional impacts, response priorities, available resources, strategic goals, tactical objectives, action plans
- Provide information for media releases, situation reports and reports
- Coordinate requests for resources from lifeline utilities
- Update lifelines utilities on CDEM priorities & emerging issues
- Provide for transition to the recovery phase

Christchurch Response LUC Review

 Reviewed the effectiveness of LUC roles in the NCMC and CRC

Report sent to all CDEM Groups in June

Several recommendations

 expanding LUC numbers, training, reviewing arrangements, etc

LUC Development

Review of the National Plan/Guide

Lifelines DGL & BPG to be reviewed

LUC training package development

• EMIS training for NCMC lifeline liaisons

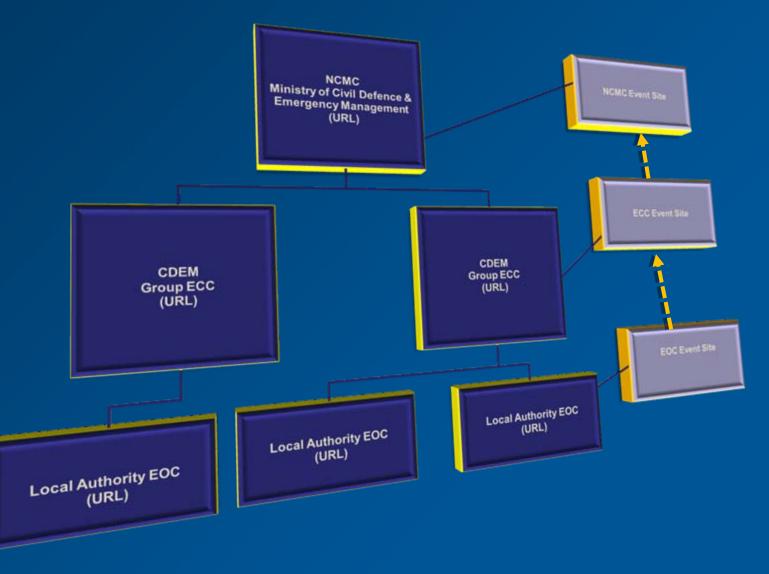


Emergency Management Information System

Update



Three Tier Solution



Time Line

CDEM Sector Train-the-trainer – October 2011

• 'Production' system live at end of 2011

• MCDEM operational on system Feb - Mar 2012

• Planned NCMC Liaison Training March 2013

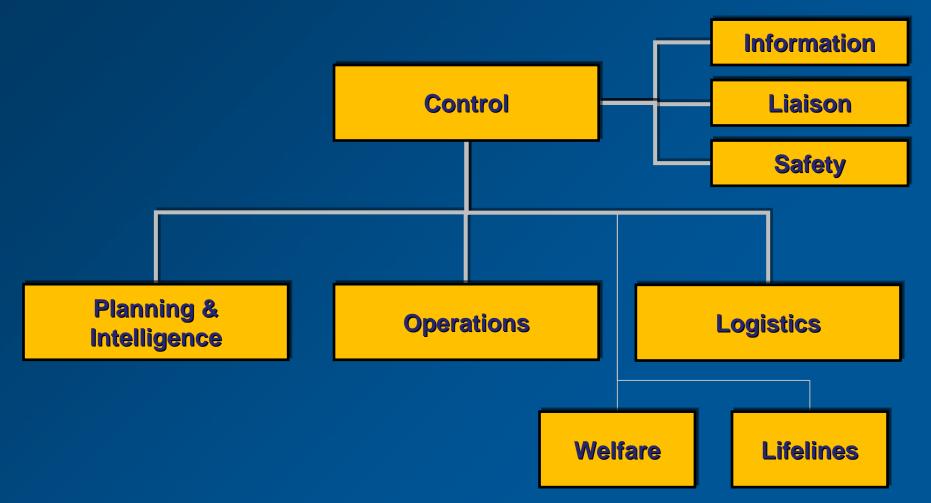
Current Status

 15 of 16 CDEM Groups using EMIS (various levels of implementation)

> 1000 users registered across the country

 Used for approximately 5 emergency responses since go-live

Event Sites: CIMS



Lifelines Status Reporting

Report Number:	Lifelines Utility					
(Auto-populated on Initial Form Submit.)	Status Report					
2	Status	nepore				
Region:	Date and Time:					
(Select the region for this status report.)	(Enter when the update was received.)					
Auckland	10/03/2008	09:10				
Sector:						
(Select the sector for this status report.)						
Telecommunications						
Organisation:						
(Enter the company, district, or sub-region of this sector.)						
Telecom New Zealand Limited						
Status:						
(Enter a brief description of the overall status of this sector.)						
No major disruptions to services						
Overview:						
(Enter a summary of the impacts on the network / assets for this sector.)						
Due to the recent seismic activity there has been an upsurge of activity in the telecommunications networks including: 1. Voice – landline and mobile						
2. Data – dial up and broadband The level 2 crisis management team has been activated.						
The increase is approximately 30% higher than normal traffic on a Monday morning.						
There have been no major disruptions to any services. All capital build has been halted in the areas where the seismic activity is being felt, to ensure the health and safety of our engineering						
outsource partner company.						
Priorities:						

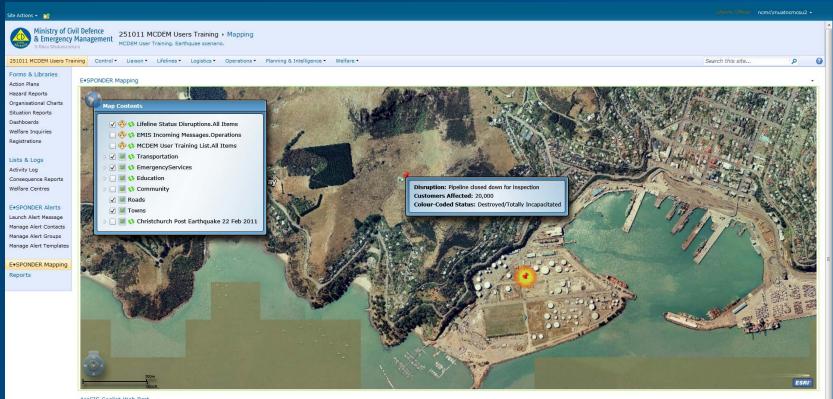
(Enter an outline of the priorities for the response to the current disruptions.)

The priority efforts are currently around monitoring and managing telecommunication traffic.

Lifelines Disruption Reporting

Disruption	Lifeline Region	Lifeline Sector	Customers Affected	Colour-Coded Status
Terrace Tunnel Collapse	Wellington	Transport	0	Operational, (but at capacity)
Line disruption	Wellington	Electricity	30	Destroyed/Totally Incapacitated
Line disruption	Wellington	Electricity	30	Destroyed/Totally Incapacitated
Truck Loading Gantry Damaged	Auckland	Petroleum	750,000	Operational, (Partially damaged or partially incapacitated)
Truck Loading Gantry Damaged	Auckland	Petroleum	750,000	Operational, (Partially damaged or partially incapacitated)
Control Centre Operational	Auckland	Water	0	Fully Operational/Open
Call Centre at capacity	Auckland	Water	0	Operational, (but at capacity)
Lower Nihotupu Dam wall failed. Leaking a 2 megalitres per hour	Auckland	Water	50,000	Destroyed/Totally Incapacitated
Watermain leak	Auckland	Water	2,000	Operational, (Partially damaged or partially incapacitated)
Watermain leak	Auckland	Water	6,000	Operational, (Partially damaged or partially incapacitated)
Watermain leak	Auckland	Water	700	Operational, (Partially damaged or partially incapacitated)
Watermain leak	Auckland	Water	1,200	Operational, (Partially damaged or partially incapacitated)
Watermain leak	Auckland	Water	300	Operational, (Partially damaged or partially incapacitated)
Watermain leak	Auckland	Water	950	Operational, (Partially damaged or partially incapacitated)
Watermain leak	Auckland	Water	200	Operational, (Partially damaged or partially incapacitated)
Wastewater Treatment Plant shut down	Auckland	Wastewater/Storm water	500,000	Destroyed/Totally Incapacitated
Control Centre Operational	Auckland	Water	0	Fully Operational/Open
Call Centre at capacity	Auckland	Water	0	Operational, (but at capacity)
Lower Nihotupu Dam wall failed. Leaking a 2 megalitres per hour	Auckland	Water	50,000	Destroyed/Totally Incapacitated
Watermain leak	Auckland	Water	2,000	Operational, (Partially damaged or partially incapacitated)

Mapping



Datasets Results					
📌 Lifeline Status Disruptions.All Items	Disruption	Date/Time	Customers Affected	Colour-Coded Status	
	Terminal Fire Supression System failure	21/10/2011 14:00	20,000	Operational, (Partially damaged or partially incapacitated)	
EMIS Incoming Messages.Operations	Pipeline closed down for inspection	21/10/2011 14:00	20,000	Destroyed/Totally Incapacitated	
👙 MCDEM User Training List.All Items		11. C	0.0		

Document Libraries

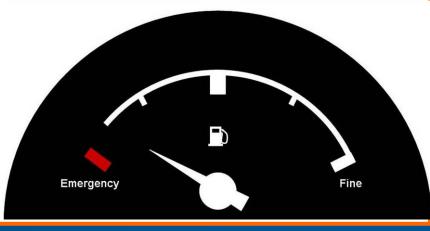
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230911 TRAINING SITE E	estimates	Liaison Lifelines Logistics Operat	tions • Planning & Intelligence •	Welfare •		Search this site	Q	0
Pictures	Туре	Name			Modified	Modified By		
Forms & Libraries		Lifeline utility coordinator report Mar 12 7 30AM	1		16/04/2012 09:16	ncmc\mconstable		
Action Plans Hazard Reports		Lifeline Utility Report 1 Telecom			16/04/2012 09:17	ncmc\mconstable		
Organisational Charts	🖶 Add document							
Situation Reports								
Dashboards								
Site Pages								
Drop Off Library								
Lists & Logs Activity Log								
Consequence Reports								
cluster example list								
Heat map example list								
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THE REPORT OF A DESCRIPTION OF A								
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Launch Alert Message								
Manage Alert Contacts Manage Alert Groups								
Manage Alert Groups Manage Alert Templates								
E•SPONDER Mapping								
Reports								
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NCMC Lifelines Liaison Training

- Planned for around March 2013
- Contents:
 - User access
 - Site navigation
 - Lifeline reporting tools
 - Mapping
 - Document libraries
- Liaisons should register once at their highest portal

National CDEM Fuel Plan

Overview



Fuel Planning

Collaborative process

 MCDEM, CDEM Groups, MBIE, Fuel Sector

Supporting Plan [SP03/12]
 To National CDEM Plan

 Context: CDEM emergency affecting fuel distribution



Basis for National CDEM Fuel Plan is:

...a CDEM petroleum contingency plan should cover the following:

- confirmation of status of facilities, major assets and transport networks;
- confirmation of stockholding by type and location;
- an estimation of emergency demand levels;
- liaison between the oil industry and the CDEM sector;
- priority allocation to CDEM critical customers (e.g. emergency services, lifeline utilities and critical facilities/industries); and
- CDEM support to the oil industry and consumers for distribution.

National CDEM Fuel Plan

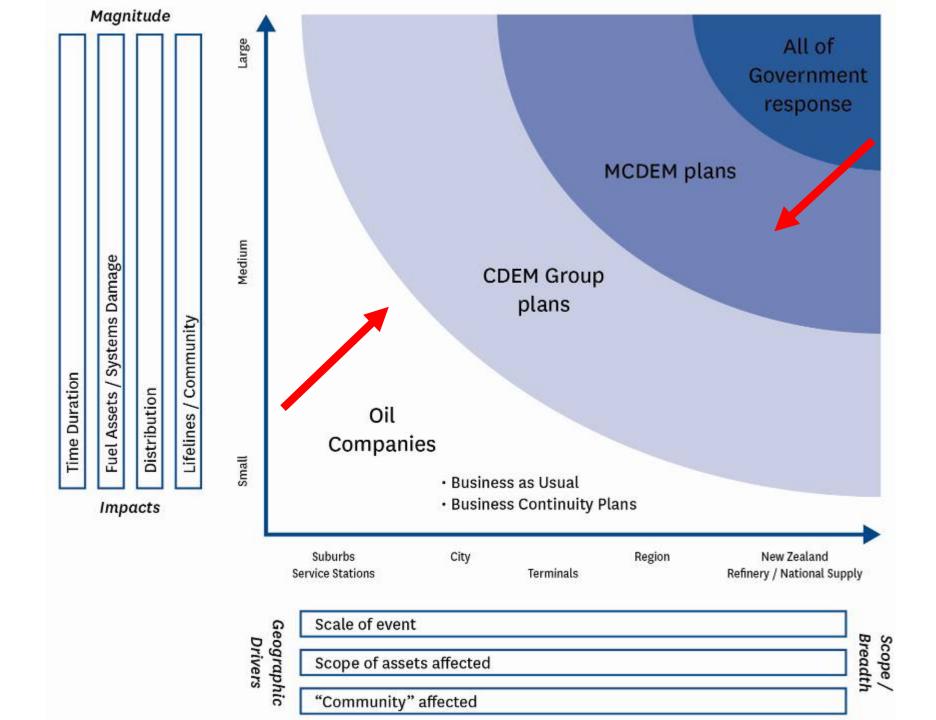
- Provides a structure for local planning with fuel sector
- Nationally applicable prioritisation model
- Mechanism for accessing rationing
- Operational communications & coordination arrangements

 (NCMC & ECC)
- National CDEM Support to fuel sector

Exclusions

Resilient New Zeelon

- The plan does not:
 - Deal with petroleum 'supply' issues into New Zealand
 - Explicitly define CDEM/Petroleum sector responses on a region-by-region basis



Fuel Plan Contents

National Civil Defence Emergency Management Fuel Plan

Supporting Plan [SP 03/12] June 2012. Version 1.0

National Civil Defence Emergency Management Fuel Plan

Supporting Plan [SP 03/12] June 2012. Version 1.0



Resilient New Zealand Aotearoa Manahau New Zealand Covernment



Resilient New Zealand Aoteoroa Manahau New Zealand Covernment

Regional Planning Considerations

 Specific impact / consequence based planning

> Hazards, risks, vulnerabilities Consequences of outages (down-stream)

Regional CDEM critical fuel customer list

 CDEM Group support to regional fuel distribution networks

- Such as logistics, consents, etc.

Local Planning Arrangements

- Priority Local routes / roads
 - Because they have service stations
 - Because they are supply routes
 - Service stations continuity
 - Working in conjunction with service station managers
 - Assisting with planning
- Service station security
 - May need to be considered (though this is a BCM issue)
- Identifying local bulk distributors
 - May be appropriate to have arrangements to access fuel in emergencies
- Local CDEM critical fuel customer list
 - Including service stations (due to priority route location or continuity)
- Local CDEM support to local fuel sector
 - Such as logistics, consents, etc.

Fuel Assessment & Planning Options

Hazards & vulnerabilities

to fuel infrastructure & distribution networks

Downstream impacts of network disruptions (ie – user based)

Leading to BCP for those affected and CDEM support plans

[Impact based] Contingency planning (cause agnostic)

- assessment of work-arounds and responsibilities in the event of regional disruptions *
- matrix of responsibilities

* Identify limit of CDEM Group & regional industry capacity for support (escalate these MCDEM/MBIE)

What and who?

CDEM vs Lifelines Groups

- Studies vs plans
 Ensure practicality and usefulness
- Expectations of minimum fuel planning?
 CDEM Critical Fuel Customers List



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