



National Perspectives

Waikato Engineering Lifelines Group Meeting

8 June 2007

Dave Brunson

National Engineering Lifelines Co-ordinator

db@kestrel.co.nz





Objectives

- To reduce ***damage levels*** following a major disaster event; ***and***
- To reduce the ***time taken*** by lifelines organisations to restore their usual level of service

Profiling of NZ Engineering Lifelines Groups



Group	Relationship with CDEM Group		
	Member of CEG or S/Cttee	Report to CEG	None
Wellington Lifelines Group			✓
Canterbury Engineering Lifelines Group	✓		
Dunedin City Lifelines		✓	
Auckland Engineering Lifelines Group	✓		
Hawke's Bay Engineering Lifelines Group		✓	
Wairarapa Engineering Lifelines Association			✓
Invercargill & Southland Lifelines Project		✓	
Taranaki Lifelines Group	✓		
Manawatu-Wanganui Lifelines Advisory Group		✓	
Nelson-Tasman Lifelines Project			
Waikato Engineering Lifelines Group		✓	
Northland Lifelines Group		✓	
Bay of Plenty Lifelines Advisory Group	✓		
West Coast Engineering Lifelines Group		✓	
Gisborne Engineering Lifelines Group	✓		

Profiling of NZ Engineering Lifelines Groups (cont.)

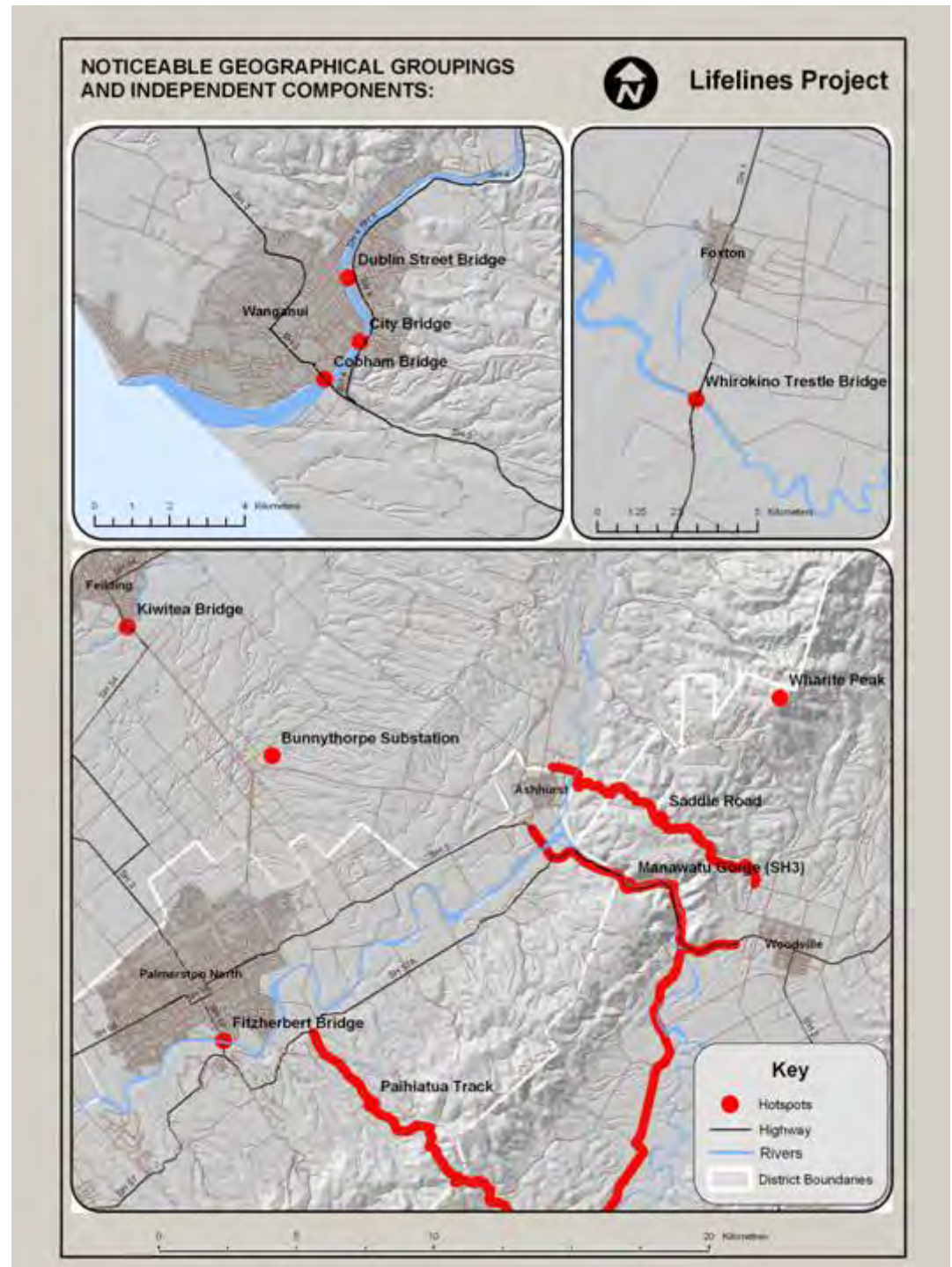


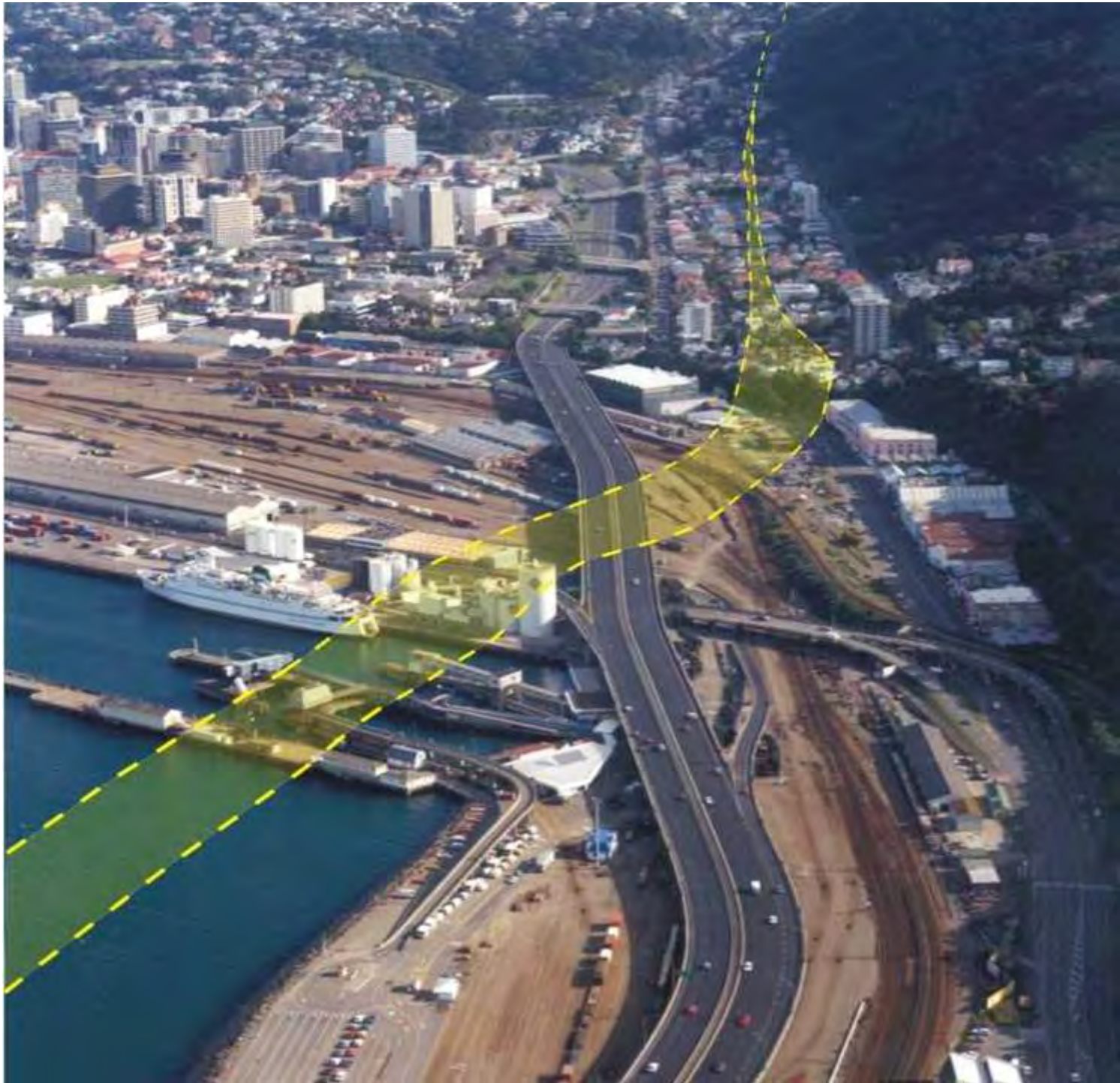
Group	Majority of Funding	
	From CDEM Group or Reg Council	From Utilities
Wellington Lifelines Group		✓
Canterbury Engineering Lifelines Group	✓	
Dunedin City Lifelines		
Auckland Engineering Lifelines Group		✓
Hawke's Bay Engineering Lifelines Group	✓	
Wairarapa Engineering Lifelines Association	✓	
Invercargill & Southland Lifelines Project	✓	
Taranaki Lifelines Group	✓	
Manawatu-Wanganui Lifelines Advisory Group	✓	
Nelson-Tasman Lifelines Project	✓	
Waikato Engineering Lifelines Group	✓	✓
Northland Lifelines Group	✓	
Bay of Plenty Lifelines Advisory Group	✓	
West Coast Engineering Lifelines Group	✓	
Gisborne Lifelines Group	✓	

Initial outputs are many and varied

- **Comprehensive Engineering Lifelines Project Reports** (3 to 4 years work; many hours; many \$\$)
- **Priority Utility Sites projects** (1 years work; some hours; some \$\$)
- **Development of detailed set of impacts from 'the' hazard scenario** (1 years work; some hours; some \$\$)
- **Disaster Resilience Summary**
- **Emergency contact list**

Risk 'Hot-Spots'





Outputs: Balancing the Perspectives

- What do Lifeline utilities want from the Lifelines Group?
- What does the CDEM Group want from the Lifelines Group?

Climate Change and Lifeline Utilities

- **Working with Min for the Environment to develop the thinking around**
 - What individual Lifeline Utilities should be doing; and
 - How can Lifelines Groups assist?
- **MfE have prepared a 2 hour workshop**
- **Plus an information resource – see www.mfe.govt.nz/issues/climate/sectors/engineering.html**



Priority Utility Sites for Response and Recovery

- **Getting clarity around priorities for service restoration – agreement prior to the event**
- **Identifying critical community and lifeline utility sites – in conjunction with CDEM**
- **Based on Auckland Engineering Lifelines Group report - available from www.aelg.org.nz**
- **All Lifelines Groups encouraged to undertake a Priority Utility Sites study**

Generic Community Priorities



from the Guide to National CDEM Plan

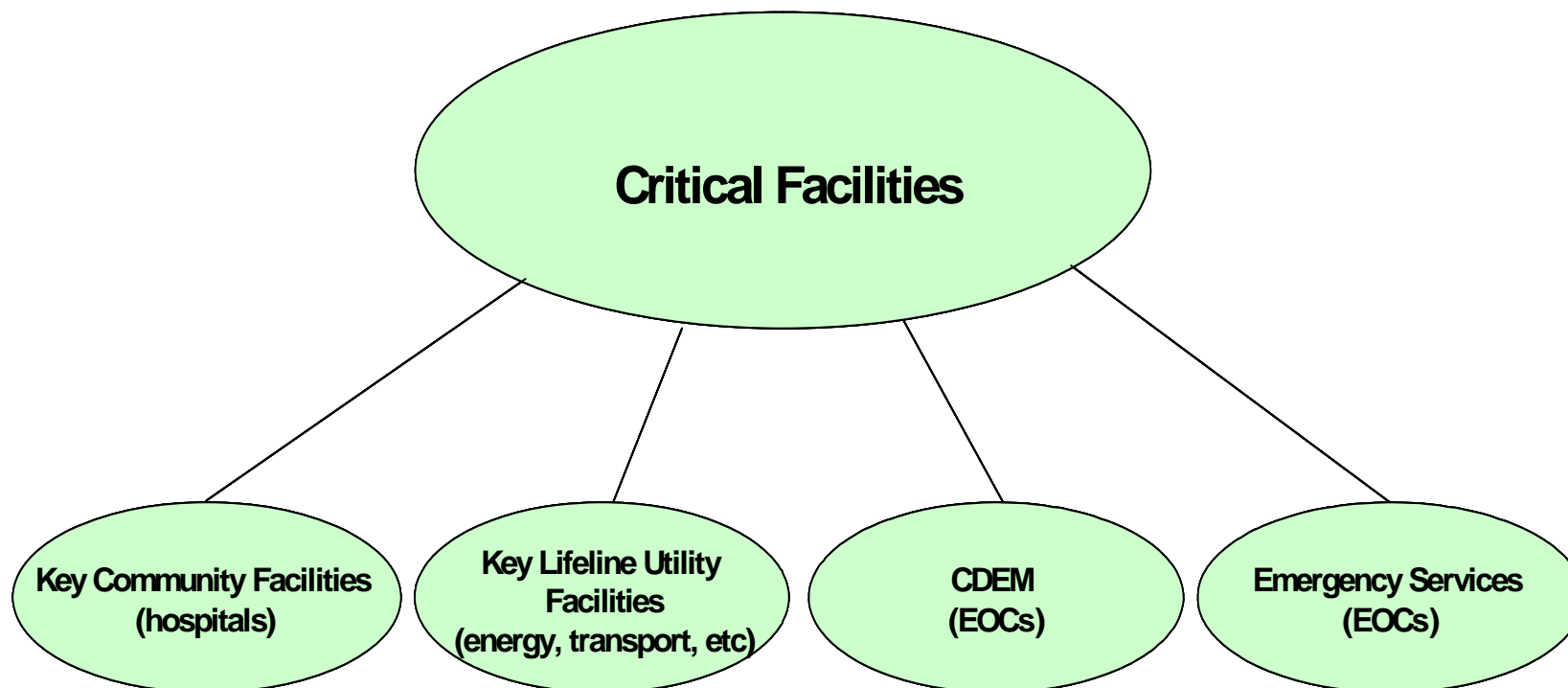
- 1. Public Health and Safety (Hospitals, Ambulance)**
- 2. Emergency Management (Police, Fire Service, Emergency Operations Centres)**
- 3. Lifelines infrastructure (Energy, Communications, Water and Transport)**
- 4. Vulnerable sectors (immobile or vulnerable groups of people such as in rest homes or prisons)**
- 5. Isolated communities**
- 6. Key areas (eg. CBDs)**
- 7. Commercial producers**
- 8. Residential zones**

Priority Utility Sites

Project Objectives

- **Identify key community facility and utility sites that are essential to support the recovery of the community following a major emergency, and explore and document the utility restoration issues**
- **Identify and document the priority sites that each lifelines organisation should seek to restore their services to after an emergency**

Critical Facilities



Priority Utility Sites

Project Deliverables

- **Lists/matrix of critical community and utility sites**
- **A map or series of maps showing critical facilities and links**

Priority Utility Sites

Direct Benefits

- **Utility and CDEM managers are able to re-assess adequacy of their emergency planning**
- **A better understanding of what 'interdependence' really means**

UPPER HUTT



