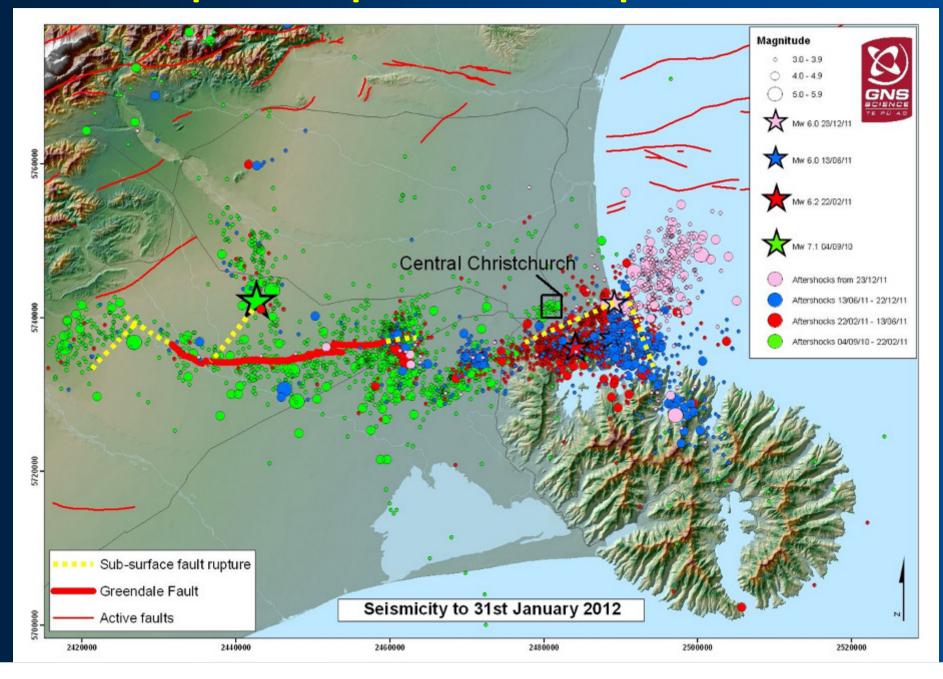


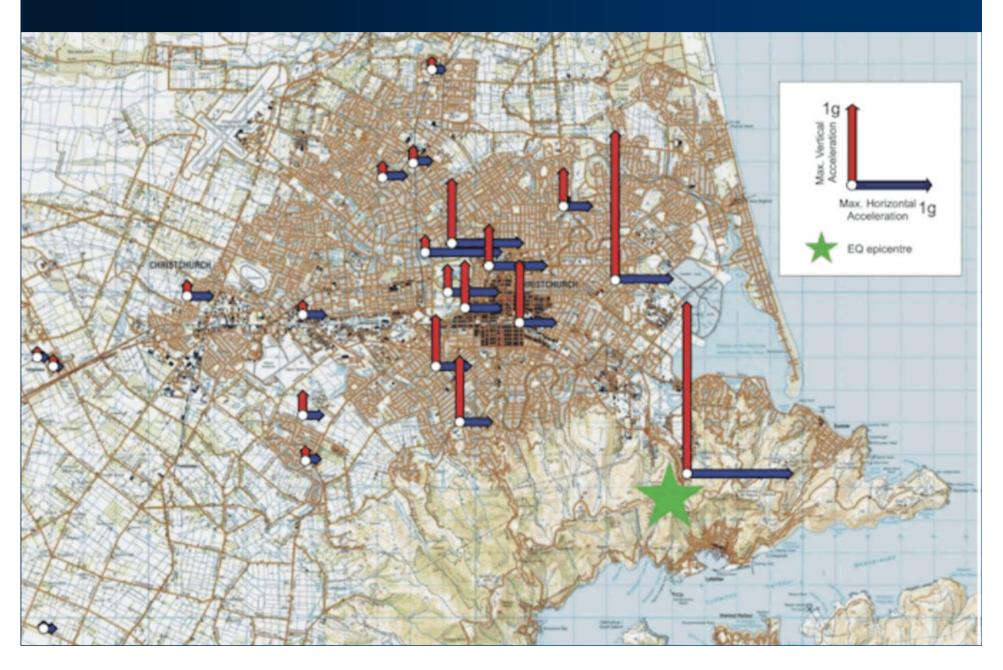
Christchurch Earthquake Response 22 Feb – 30 April 2011

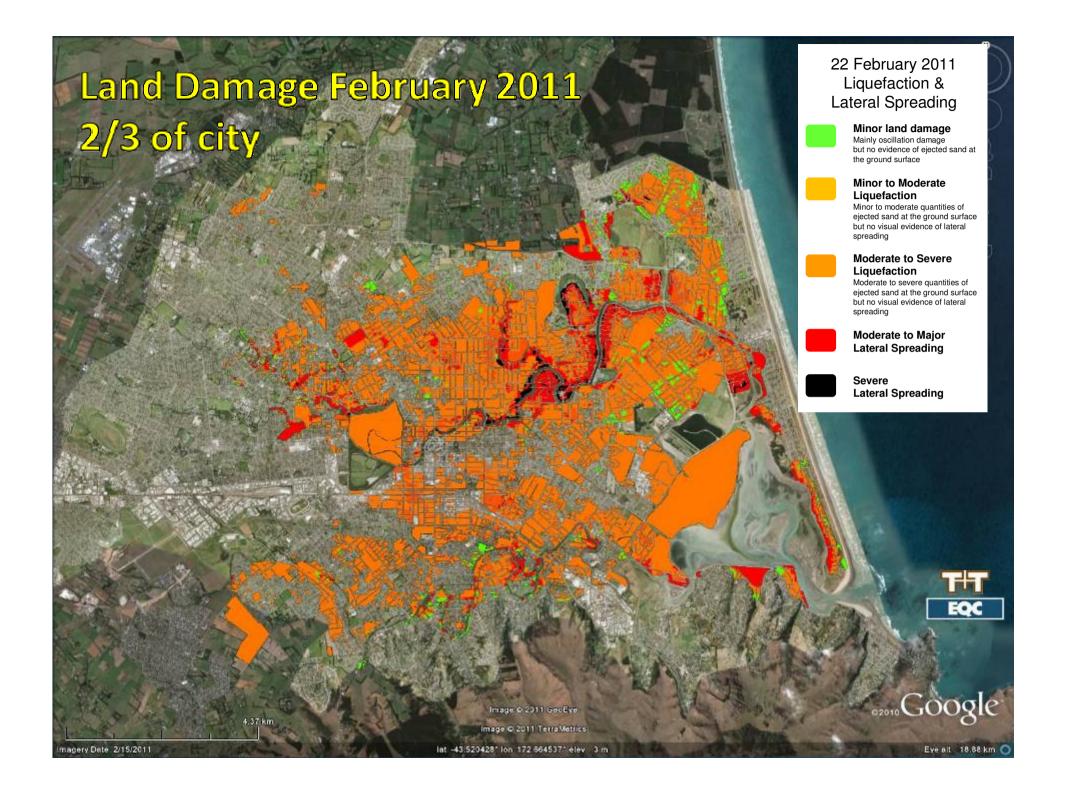


Earthquake Sequence since September 2010



Vertical vs horizontal acceleration



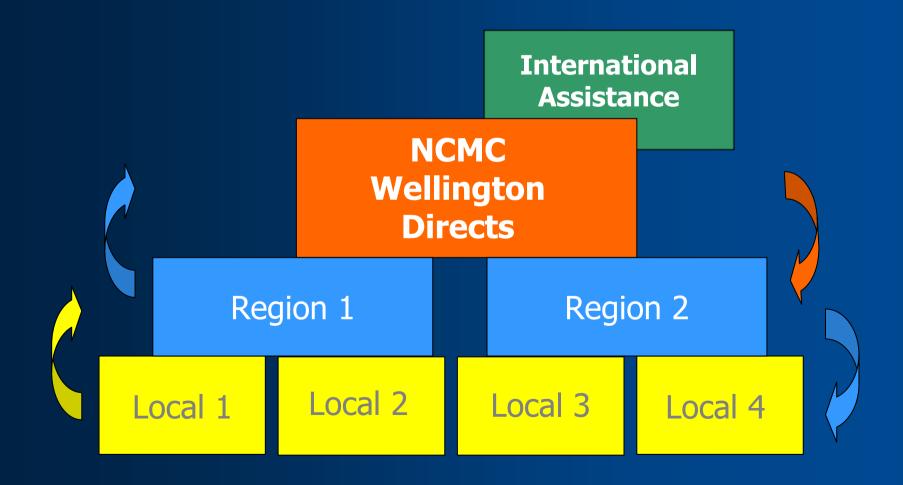


Liquefaction & slumping



1'st State of National Emergency!

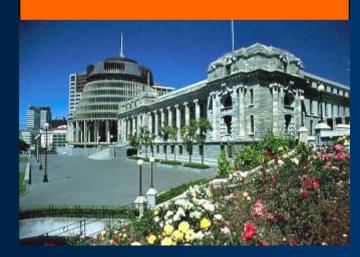
Exercises vs Reality! Established model:



Response Model: Christchurch Earthquake

International Assistance

NCMC Wellington
(National Coordination)





Christchurch Integrated Response Centre

National Directs





Personnel @ peak

•	CRC:	1500

•	NCMC:	165

•	Austral	lian Police:	353
	/ (G5 C1 G1	idii i diide.	

•	USAR	Internationals	439
		International	TJ.

Operational priorities & phases

Phase 1:

Rescue,
Casualties,
Safety,
Shelter
Food
Water
Utilities

Phase 2:

Recovery of deceased, Detailed assessment, Welfare of residents, Public assurance

Phase 3:

Community wellbeing, Economic recovery, Recovery planning

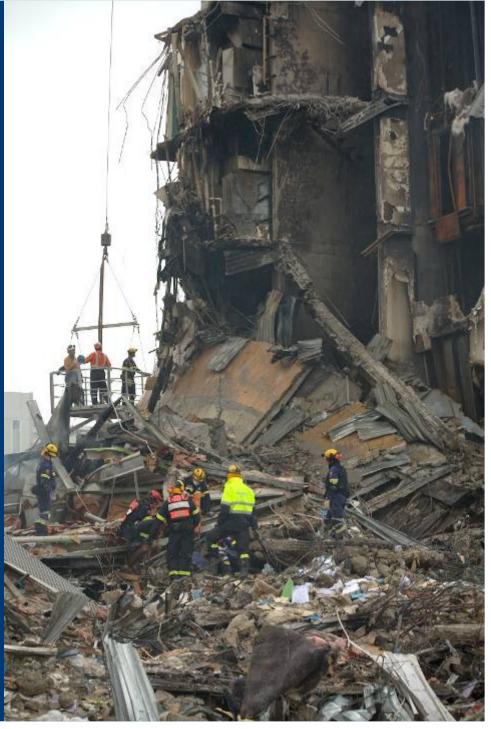




Complex rescue-Building collapse & fire

CTV Building – 120 fatalities







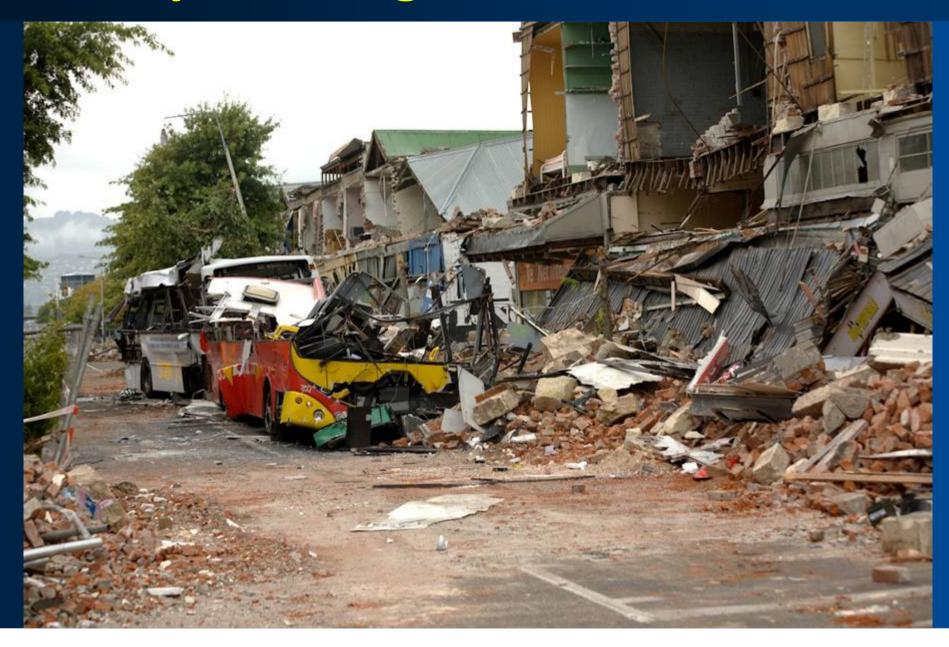




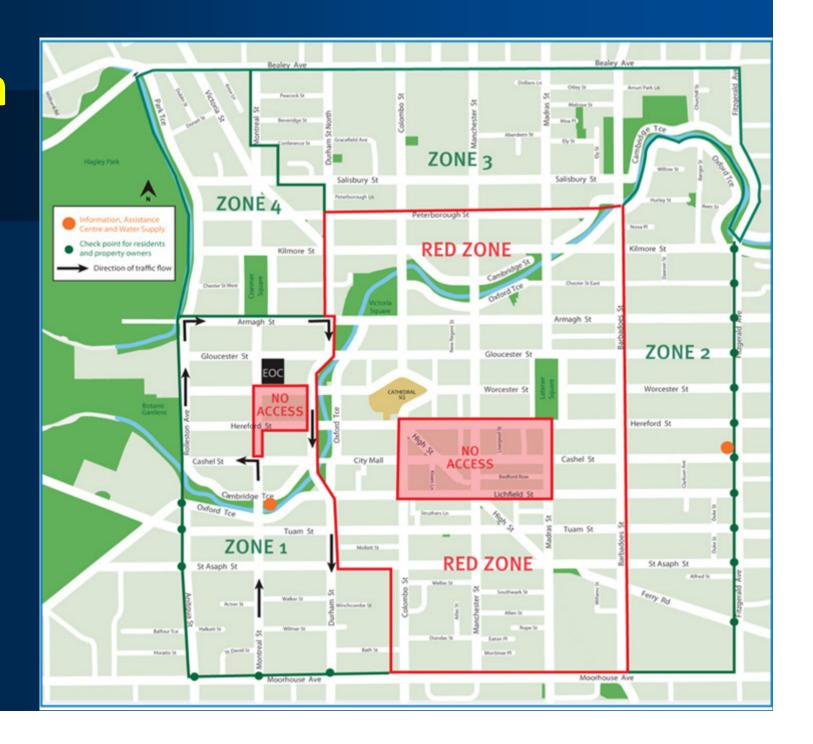
International USAR from day 2 (7 countries)
NZ 150
International 439
589



Safety: Building Facades – CBD



Cordon CBD

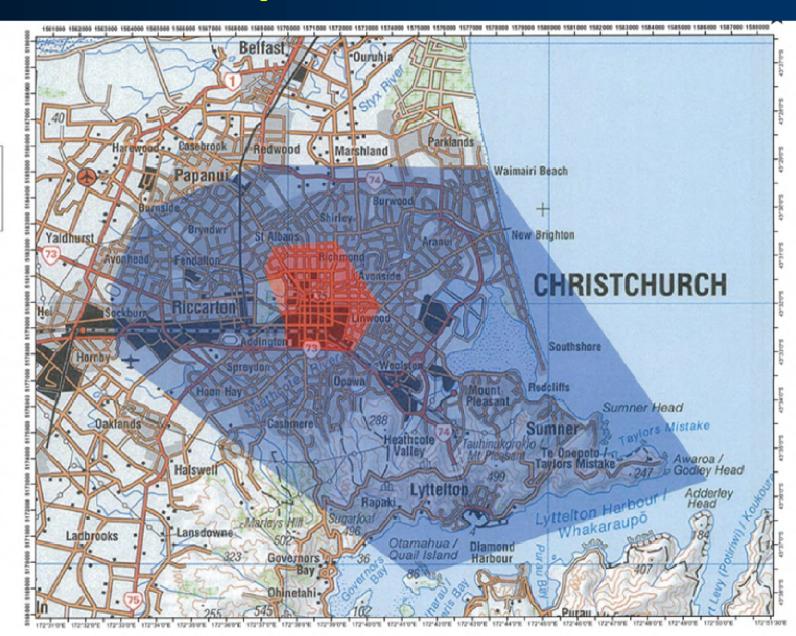






Cordon management

Restricted Airspace

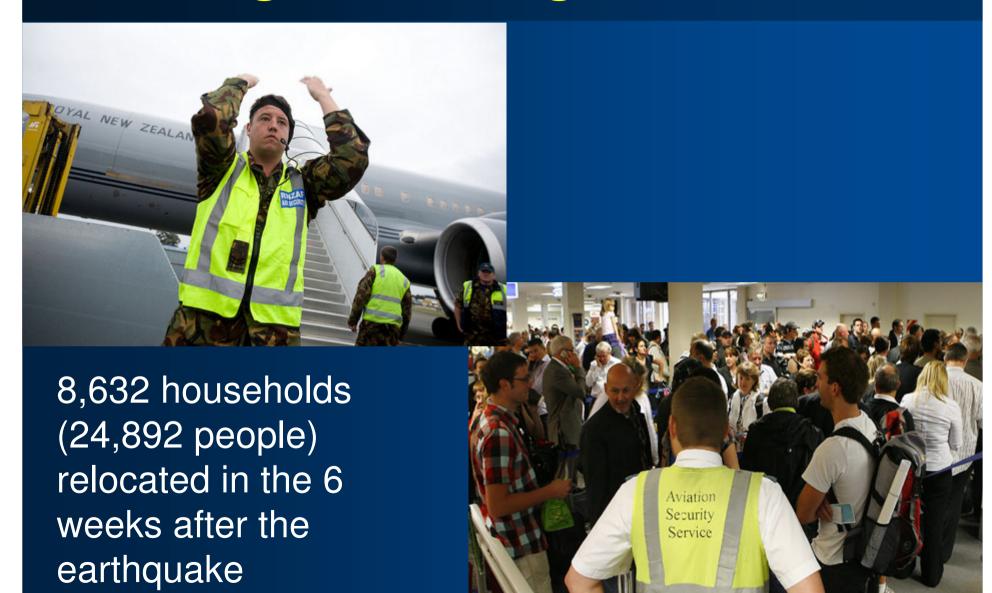




Restricted_Airspace

Extended TRA NZR 903

Air Bridge -> Wellington, Auckland









Public Information

- 400+ media advisories
- Tweeted 1,800 times
- Held 183 media conferences

Call centre re-established on N. Island, took 167,291

calls (normal = 45,000/month)

177 public information staff



Christchurch

Media Tours Today

14:30 hours

Visiting: CTV building PGC building Cathedral Square

Christchurch

Media Briefings

Everyday 10:30 and 17:30 hours

in Auditorium

Public Information Centre

Our email address is: CDpublicinfo@ccc.govt.nz

Our phone numbers

Public Information Manager:

0278 247 876

Public Information Manager 2IC:

0278 123 882

Media enquiries phone:

0272 410 244 International media enquiries:

0278 123 874

Access to EOC through cordon: 0274 919 775

Christeburch Earthquake

Emergency Coordination Centre Operations Section

Daily Schedule

Action Plan (Planning)

National Controller Beirling Operation Section Managiners, Team Borford

Planning Section Management Team Booting Operations and Planning Ionst Management Team Brieforg

Sinsziem Report (Planning)

Stational Committee Briefing

1500 To be developed 1530 1000 - 0770

115000

6MON 0930

1039

1400

Christchurch

What's on Today

Media Schedule: Monday 28 Feb

Perfecting with Study States Sanday States S

10. bin

Real Property

LATEST NEW ADVISORY

Initial assessment

- Quick assessment capability is crucial
 - Plan for it, include aerial reconnaissance
 - Use it to prioritise & task
 - Communicate it

Detailed assessment to follow (phase 2)

Phase 2 Challenges

Start Detailed assessment:

- Operation Suburb
- Operation Shop
- Operation 'Sweep'



Challenges- detailed assessment

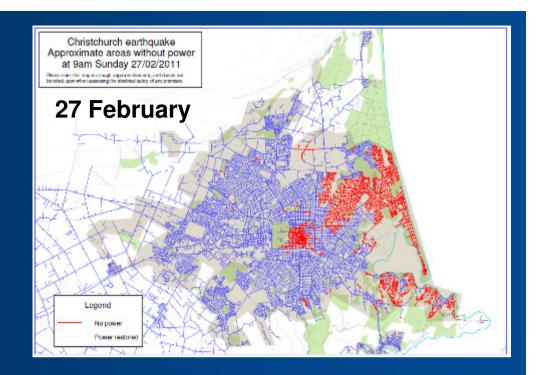
- Plan for it multi discipline (safety, structural, needs, infrastructure, land, insurance)
- Data collection & collation (manual, duplication)
- Use it for operational planning
- Use it for strategy planning (2-4 weeks on)

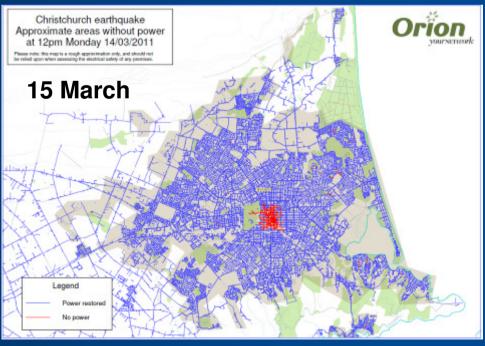


Power

75% out
50% restored in
1'st 24 hrs
90% restored in
10 days



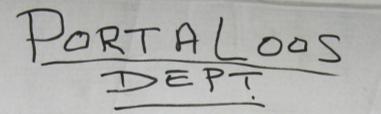










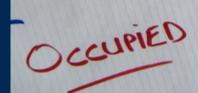


We know that 80,000 people need loos

We have 900 - 1800 available or coming.

WE DON'T NEED TO BE TOLD PEOPLE NEED LOOS

JE'RE N.O.1 WITH YOUR NUMBER TWO!



CANT

Wastewater system: 40% out







Information management

Limited IT in CRC at start-up

National EM Information System not ready:

- Data duplication
- Manual collection
- Isolation of info
- COP limitations
- Manual filing



Needs assessment

- Needs assessment top-down approach
 - Response Teams
 - Survey Teams
 - Community meetings
- Complement with bottom-up approach
 - Keep call centres alive & info into system
 - Community coordination points
 - Social media
 - MP's/Elected members?

Logistics!

- 2,500 port-a-loos
- 40,000 chemical toilets
- 35km security fencing
- 20+ portable shower units
- 40+ sucker trucks
- 40+ water tanks
- Generators (heaps)
- 1 Desalination plant
- Building inspectors (1000>)
- Staff + Travel

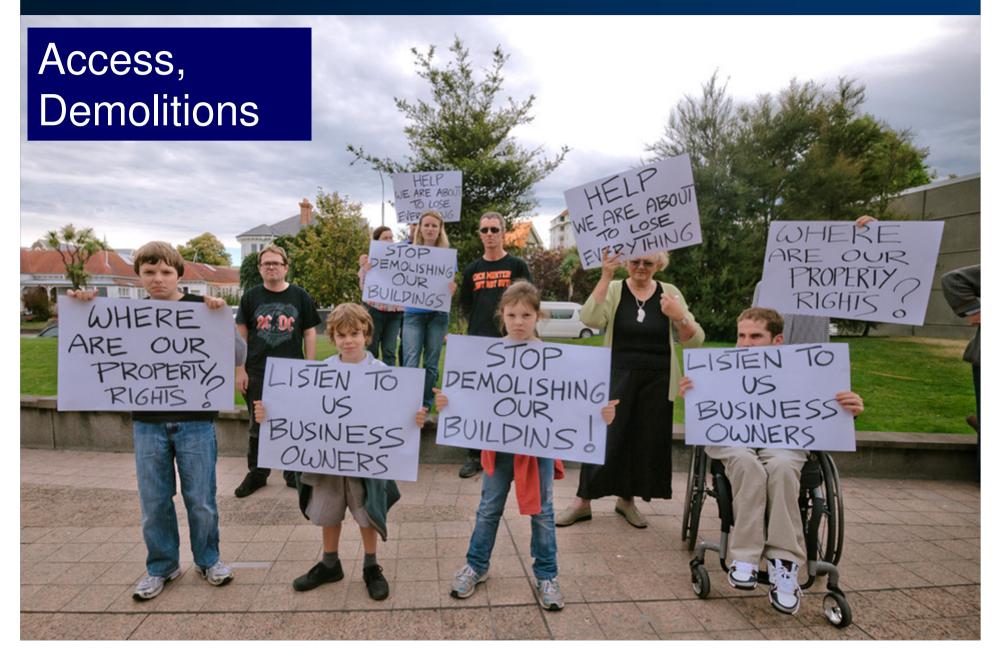
Financial delegations!

Procurement process!

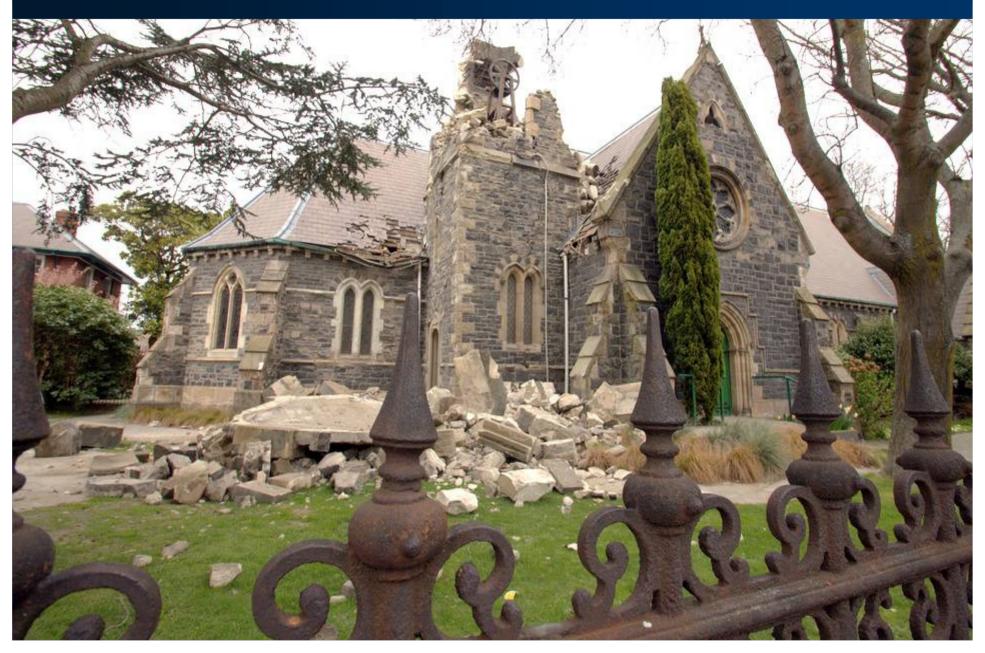
Contracts!

Financial tracking system!

Challenges Phase 3



Cultural, heritage- Decisions!



Community meetings

- Get local stories, names
- Speak to that community
- Detailed

Christchurch EARTHQUAKE RESPONSE

COMMUNITY BRIEFING

Burwood Park

(Between Cresswell Avenue and New Brighton Road)

Saturday 16 April 2.30pm

See canterburyearthquake.org.nz/ for more information

Recovery model

- Normal arrangements insufficient
- Establishment of Canterbury Earthquake Recovery Authority (CERA)
 - Legislation
 - Appointment of Minister for Canterbury Earthquake Recovery
 - Tensions
 - Expectations

Situation at end of state of emergency (30 April)

• Fatalities: 183 (final total: 185)

Power: 100% restored outside CBD 'red

zone'

• Water: 100% have mains supply outside

red zone

Waste water: 97% of city with working toilets

Schools: All open (11 sharing facilities)

Health: All services within capacity

Some current stats

- 450,000 properties assessed, 26,000 condemned (2% unsafe, rest due to land instability). 9 months to vacate Govt buys property against CV less insurance payments already made, <u>or</u> buys land against CV and owner deals with insurance for house.
- 3,250 students did not return (12,000 left in Feb)
- 77,000 CD payments
- 7,000 Accident Compensation claims
- Est. Economic Impact NZ\$ 29 Billion (c. 10% of NZ's GDP)

Looking forward

- Response arrangements appropriate, but can be refined
- CDEM profile strengthened capitalise
- Community resilience, building performance good
- Lifeline utilities resilience good
- Focus on small business BCP
- Independent review; Royal Commission into structural performance issues will inform - prep
- Recovery mechanism (large scale) to be formalised

Thank You



