

# Keeping Christchurch Moving: Post EQ Traffic Management

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New Zealand Government

## Christchurch Earthquake

- Half Christchurch's roads suffered some damage
- More than 50,000 road surface defects recorded
- More liquefaction – esp. near rivers
- Roads closed - became carparks



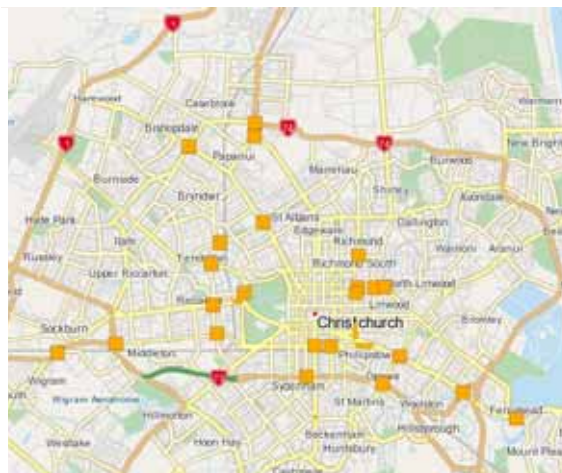
## Post EQ initial response

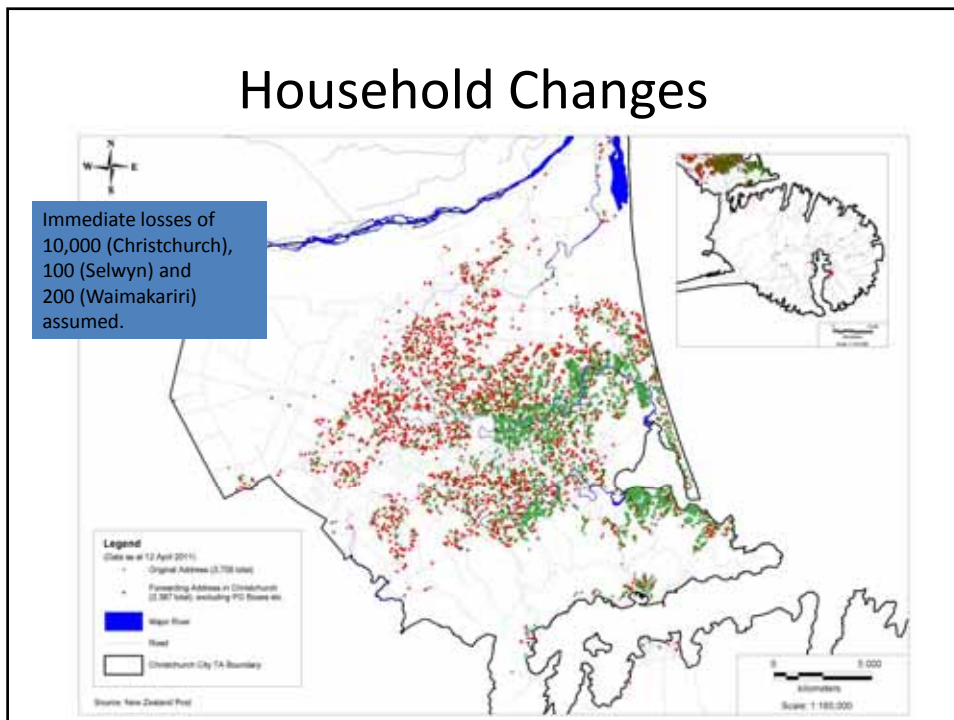
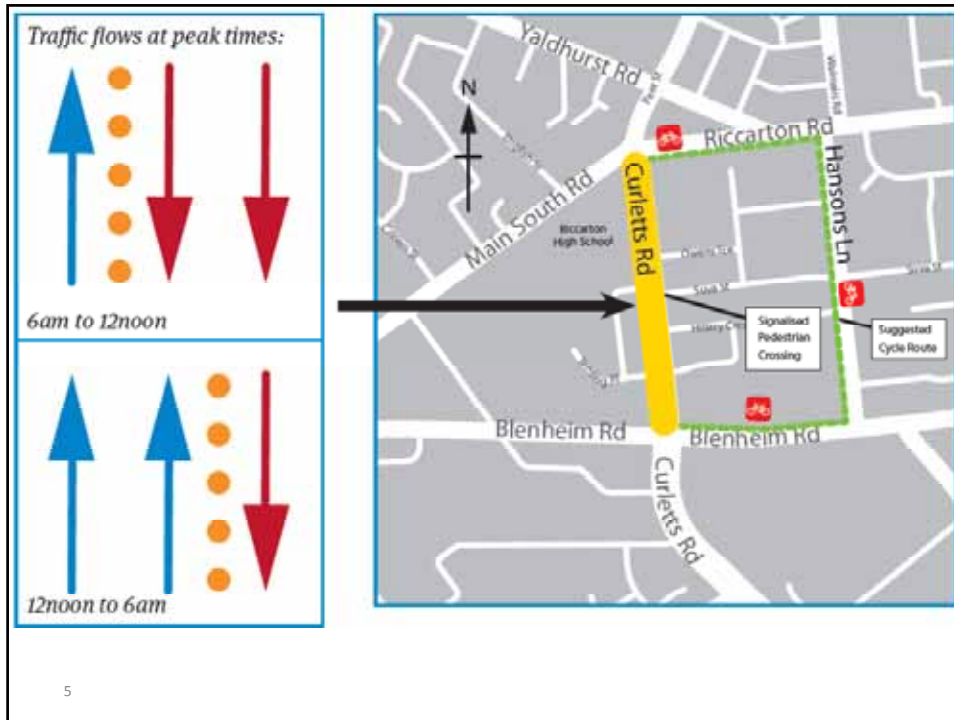
- CCC traffic signals team re-establish power/communications
- Working together CCC/NZTA/consultants/contractors
  - to review road network defects
  - to review network performance
  - to identify traffic relief initiatives
  - to identify re-location of businesses
- Strategic Routes Team formed – NZTA/CCC
- One Network Approach



## Getting Christchurch Moving – corridor relief measures

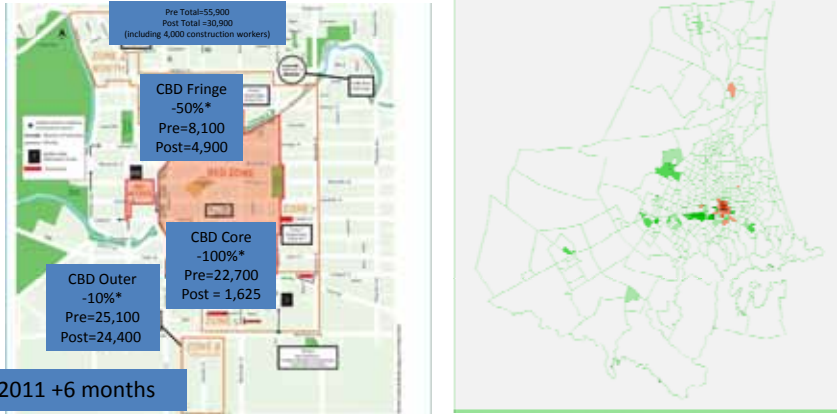
- Prioritised building demolitions and/or make safe
- Prioritised road/bridge repairs
- Prioritised road re-openings
- Capacity improvements - signals, signs and markings
- Cycle route repairs and alternative cycle routes





# Estimating impacts on business

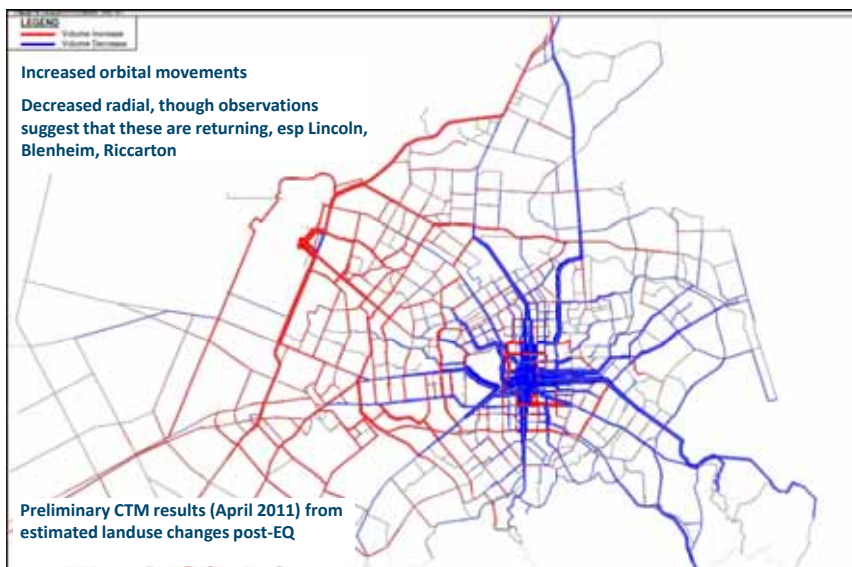
## Preliminary estimated landuse changes post-EQ

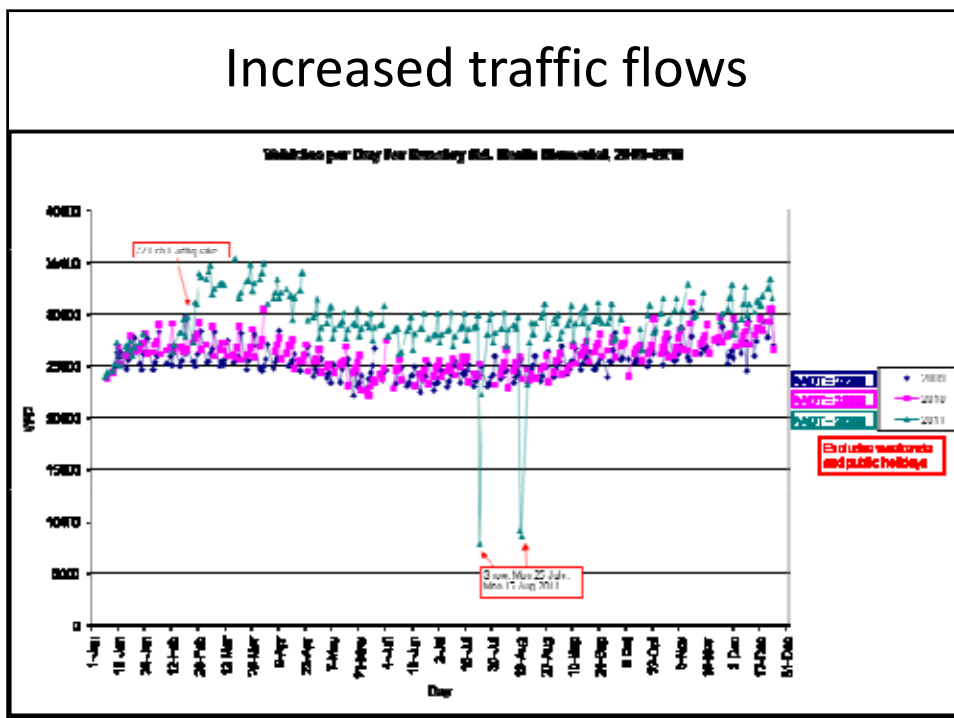
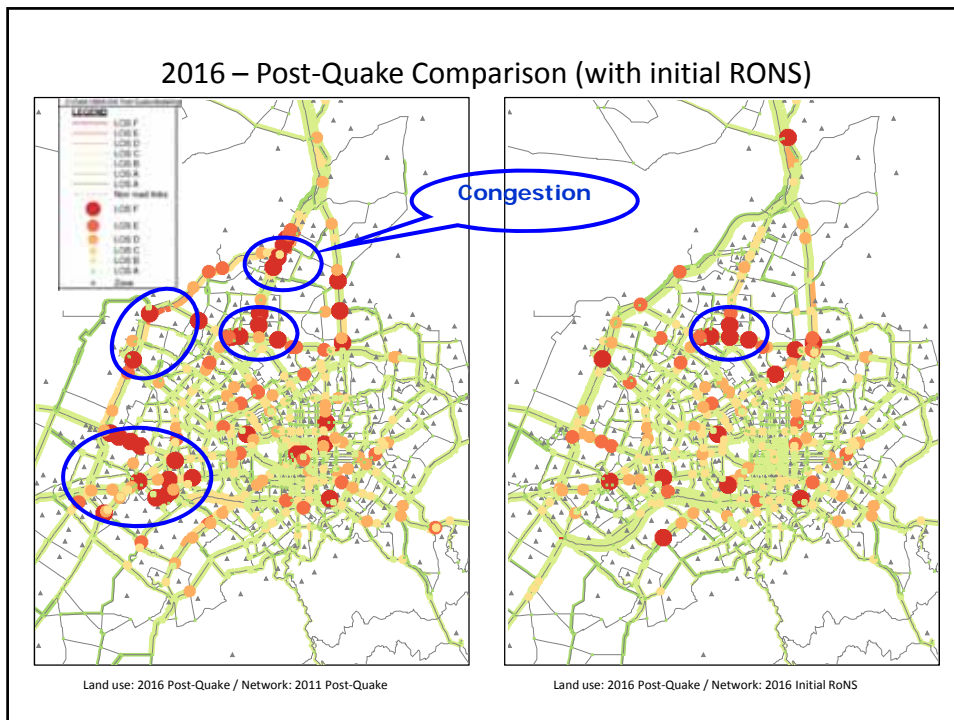


•% Reductions exclude Hospital and Construction Jobs  
•Post-earthquake totals include influx of Construction workers assumed

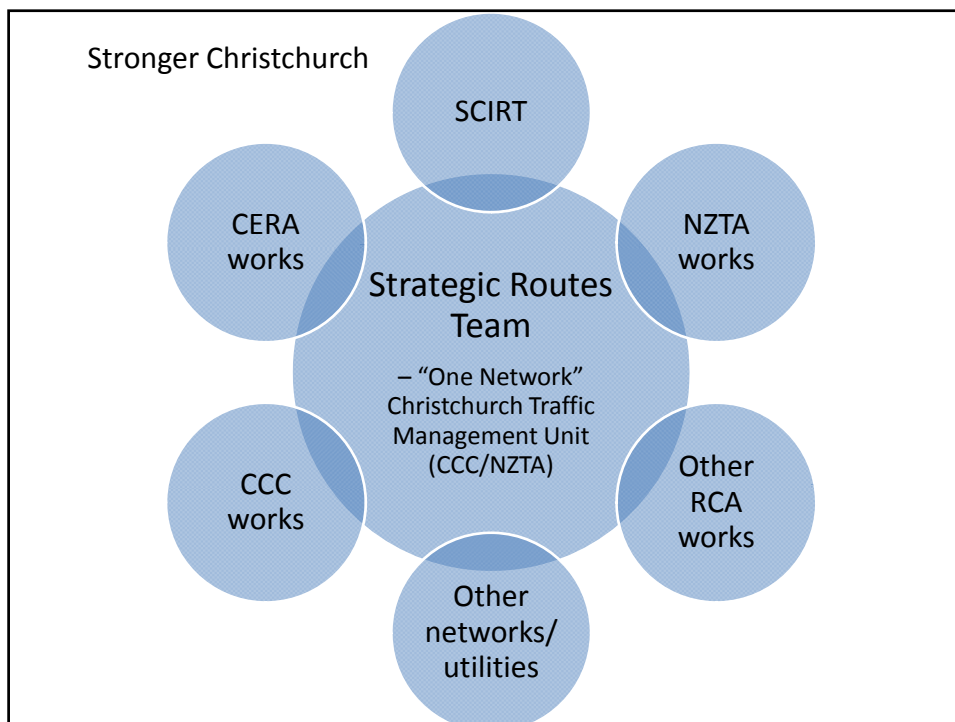
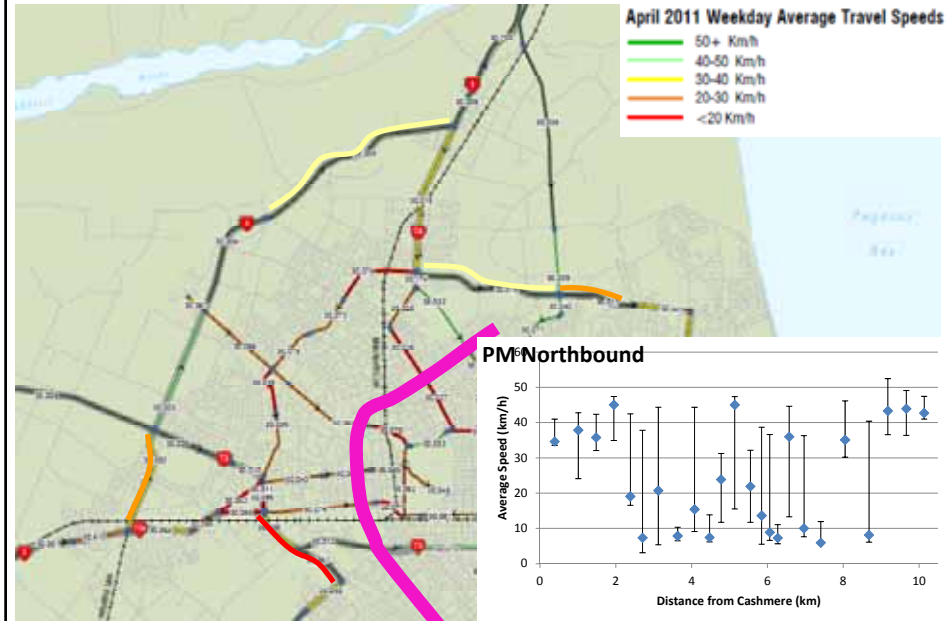
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## Demand Change from 2011 (Pre-Quake) to 2011 (Post-Quake), red is traffic increases

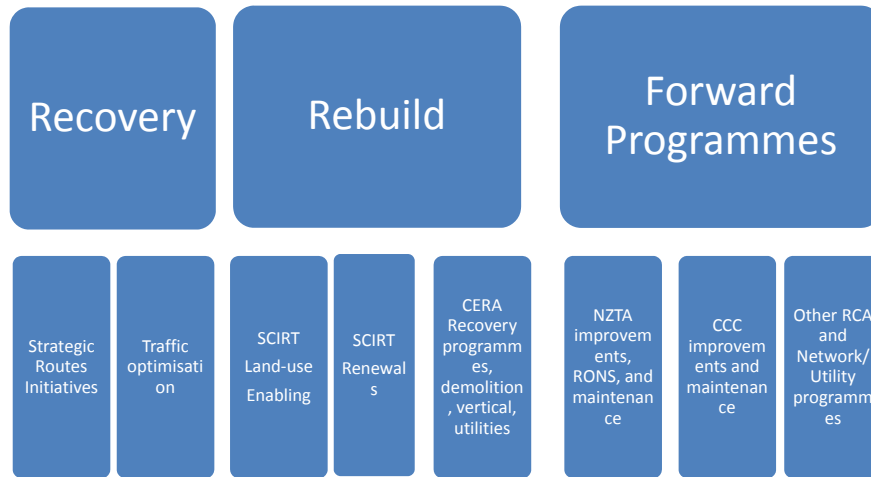




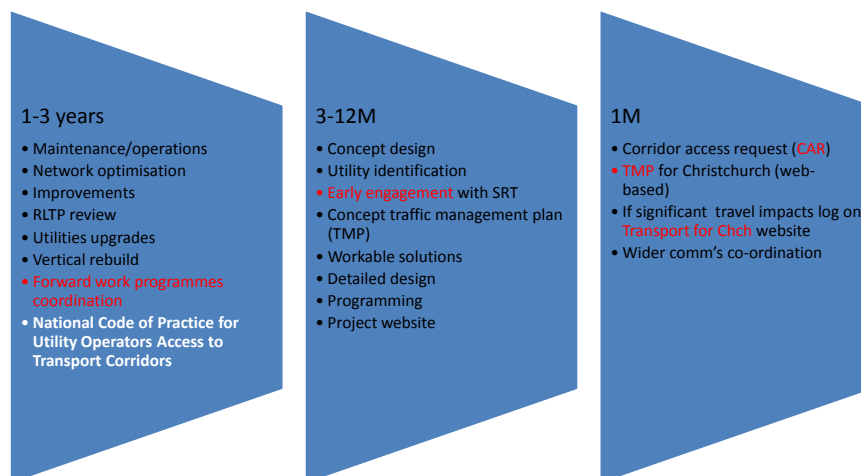
### Congestion Monitoring - Post Quake Travel Speeds



## Work programme coordination



## Strategic Routes Team -early engagement



**Transport for Christchurch**

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- Avondale Sewer Upgrade**  
Niven, Waratah and Wolley St  
30 March - 30 April  
Sewer Upgrade  
[Read more](#)
- Ferrymead Bridge Upgrade**  
Ongoing  
Upgrade works being carried out  
[Read more](#)
- Antigua Street Bridge closure**

The map shows Christchurch with various road conditions indicated by colored lines and icons. A key on the right lists: Significant Disruption (red), Moderate Disruption (orange), Road Closures (yellow), Weight Restricted (blue), Travel speed (low, fast) (green), and Free Flowing (light green).

### Network Performance Monitoring ARTIS – Advanced Real-time Traffic Information System

Christchurch City Council  
Thu 8 Oct 2011 17:30  
ZIC monitor

Degree of congestion

- Free
- Light
- Medium
- Heavy
- Severe
- No data

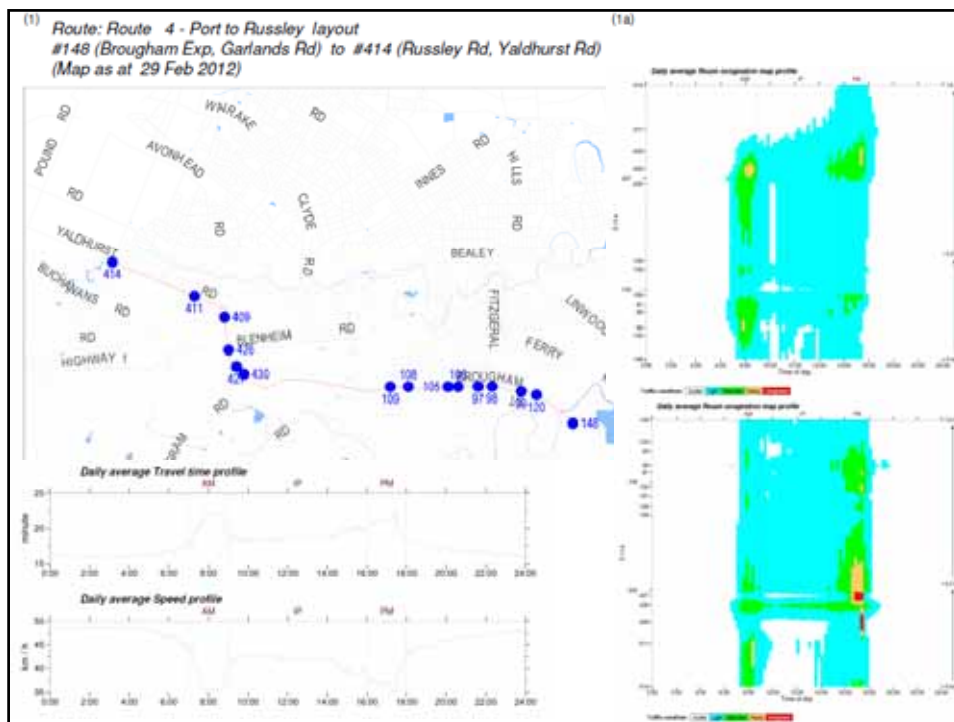
Christchurch City Council  
Thu 8 Oct 2011 17:30  
Route congestion monitor

Degree of congestion

- Free
- Light
- Medium
- Heavy
- Severe
- No data

- Traffic flows
- Congestion index
- Route monitoring
- Speed, time and mobility index





## Keeping Christchurch Moving

- Strategic Routes Team
- Working together - One network approach
- Congestion relief measures, network optimisation
- Forward work programme coordination – SCIRT and others
- Improved traffic management system - TMP for Chch
- Improved traveller information - TfC
- Network performance monitoring – ARTIS
- Big steps forward – but driver patience still required
- Looking ahead to changing travel patterns

# Questions

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