



**Christchurch Central**  
Development Unit

*Te Uepū Whakabiato*

# Construction Clients' Group Meeting

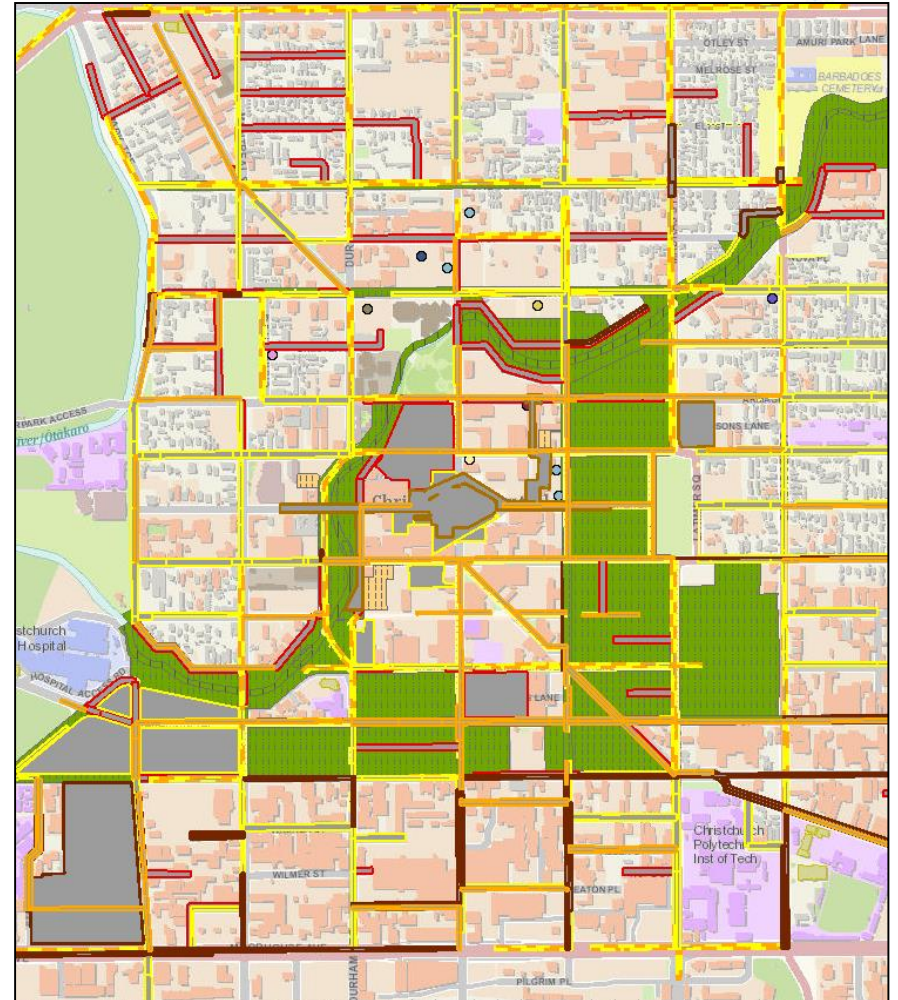
Wednesday 28 May 2014

**Alistair Pearson**  
Construction Manager

# Construction Management Office role:

Within CCDU the CMO is:

- Responsible for the co-ordination and collaboration of all Horizontal Infrastructure and Vertical Re-build activities within the five avenues
- This incorporates all Anchor Projects, SCIRT works, Transitional City Projects, Private Developments, CCC capital works and events.



# How do we manage these space and time conflicts?

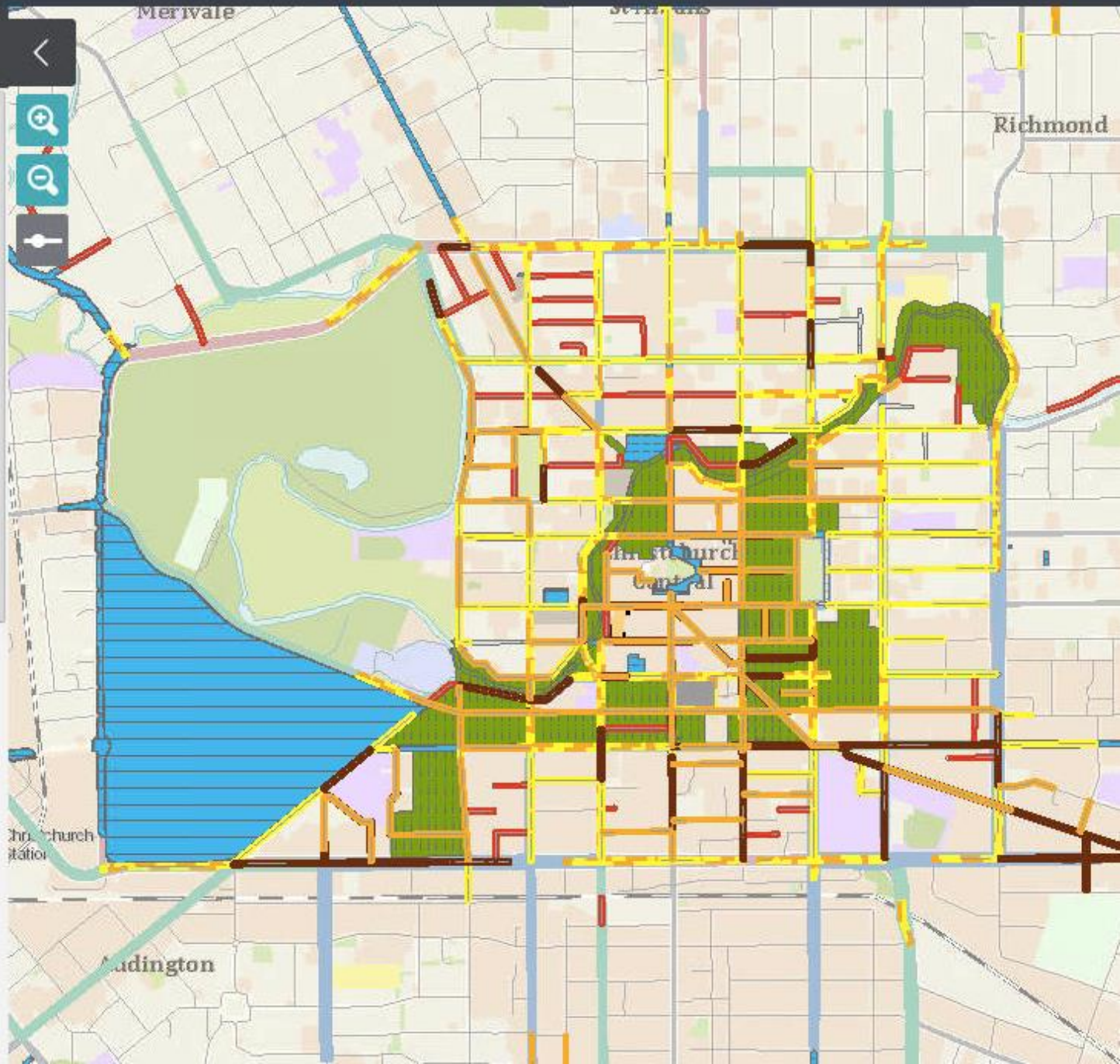
- Through working with Land Information New Zealand (LINZ), ECan, NZTA and CCC, we have developed the Forward Works Viewer (FWV).
- We assisted in the development of a prototype and have progressed this to the web based interface
- The FWV is user friendly with a web interface for uploading project information.
- Access and the ability to understand your project impact is granted through interaction with the web interface.





### Map Layers

- Impacts
  - + Traffic
  - + Stormwater
  - + Water Supply
  - + Sewer
  - + Electricity
  - + Gas
  - + Telecommunication
  - + Fibre
  - + Car Parking - On Street
  - + Car Parking - Off Street
- Horizontal Projects
  - + SCIRT
  - + CCC
  - + NZTA
  - + Enable
  - + Orion
  - + Private Sector
  - + Other Organisations



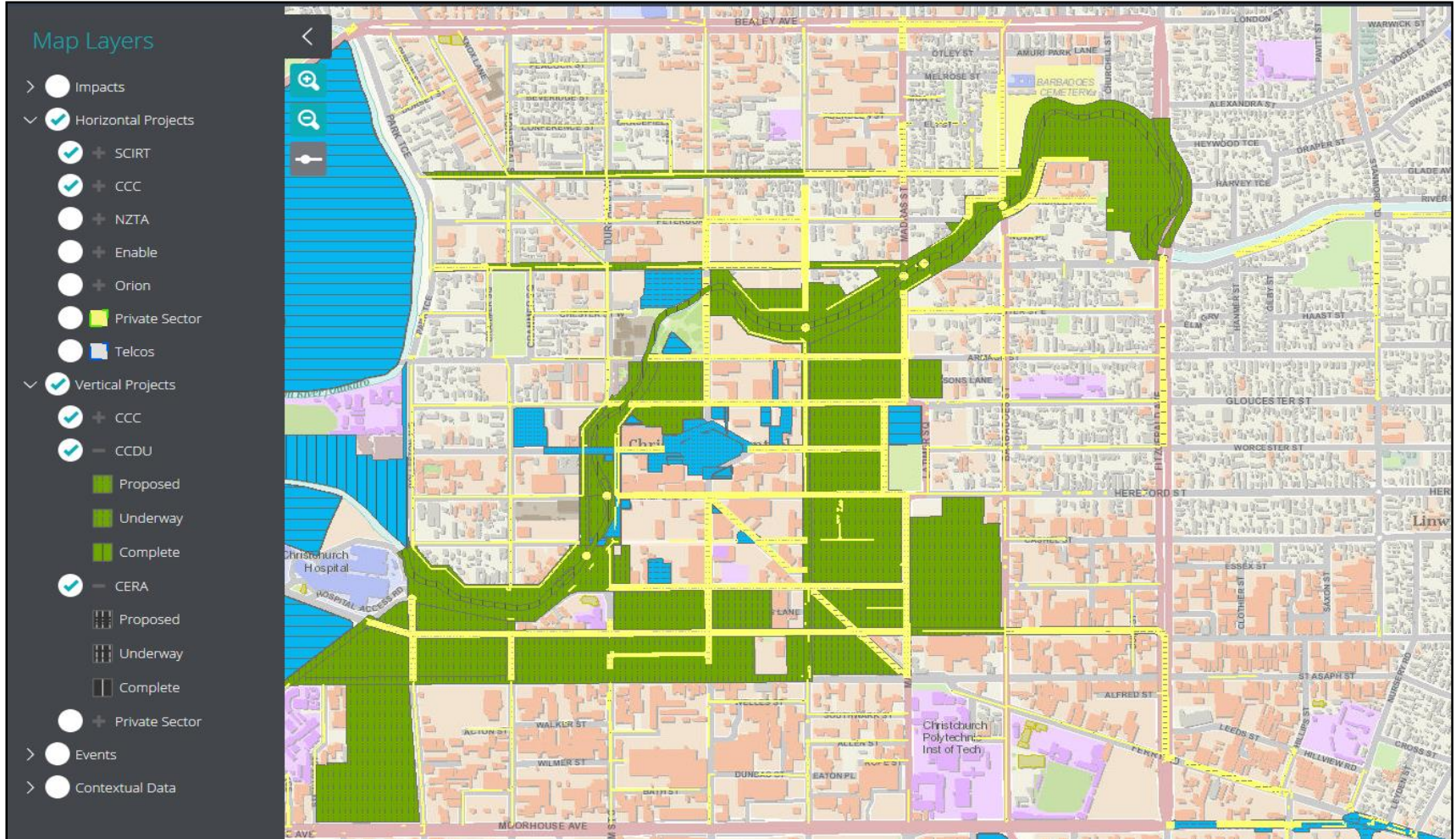
# Public Sector Data on boarding

- SCIRT FWP (detailed street level programme)
- CCC FWP incorporating:
  - CCC Events Management Data
  - Wastewater/Water supply
  - Capital Works Projects
  - CCC Anchor Projects
- CCDU Anchor Projects
- Traffic Impacts
- Utilities – Orion and Enable – all other utilities are negotiating their acceptance methodology
- NZTA – Roads of National Significance

Data for these projects is updated, weekly, fortnightly and at any time of significant change.



# Public Sector Projects

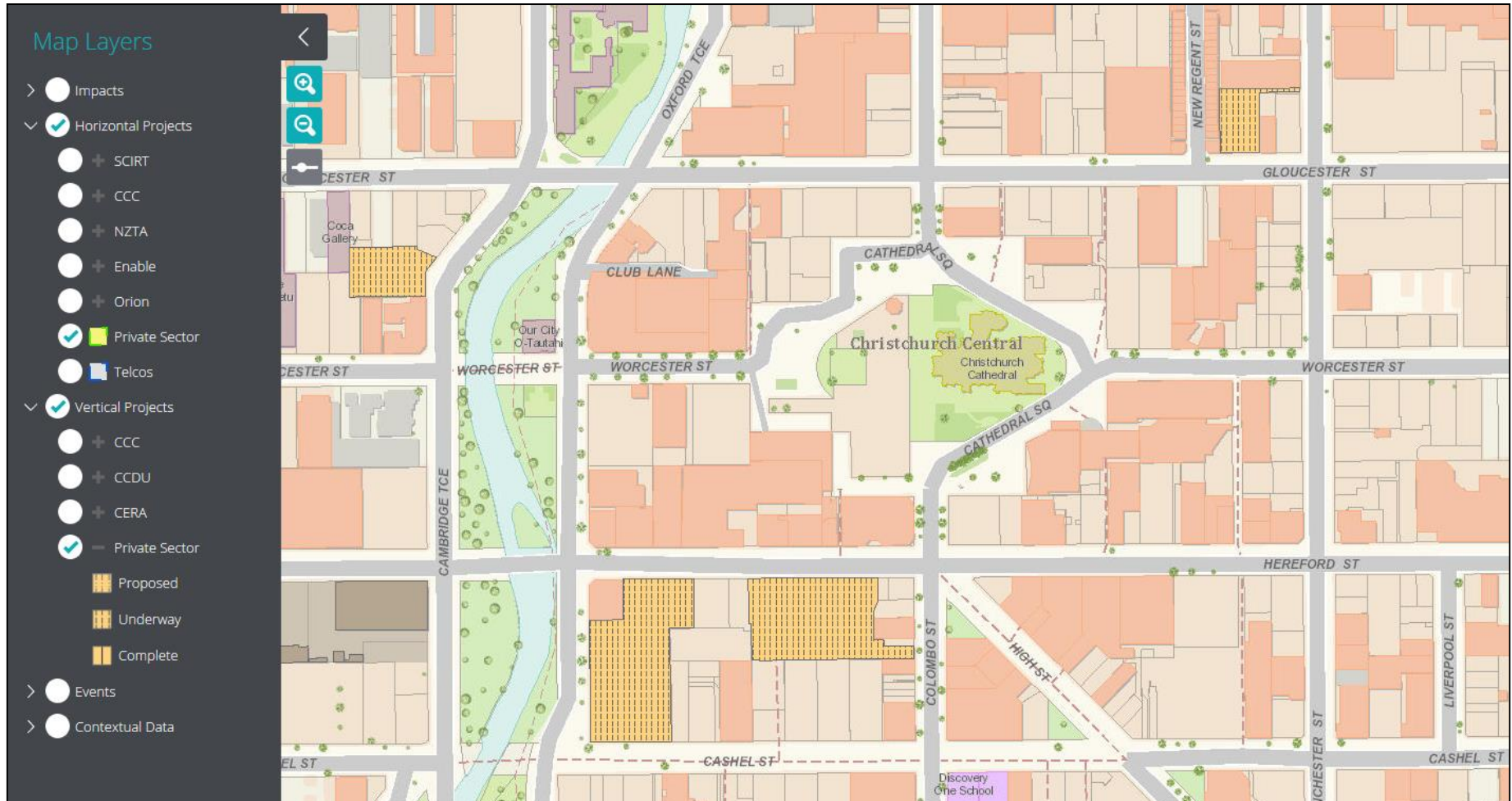


# Private Sector Data on boarding

- Private developer submissions via LINZ
- Construction company submissions via LINZ
- CCC are providing collated data from the private Sector at pre-application
- CCDU are co-ordinating with CCC Case Managers and uploading basic project data at source **this is for Administrator access only**



# Private Sector Projects





# Inputting Programme Data

**FORWARD WORKS**    NEW PROJECT    MAP    🔍    LOG OUT | USER2

## General project information


<b>Project name</b> The Terraces	<b>Project type</b> Vertical Construction Projects
<b>Project reference:</b> The Terraces	<b>Project status</b> Construction
<b>Start date</b> 01/10/2013	<b>End date</b> 20/12/2014
<b>Contact first name</b> Brent	<b>Project summary</b> The Terraces Project on the Oxford Terrace
<b>Contact last name</b> Hawes	
<b>Contact phone</b> 027 5523695	
<b>Contact email</b> brent.hawes@arrowinternational.co.nz	
<b>Contact address</b> 190 Hereford Street	



# Project and Programme View

FORWARD WORKS    NEW PROJECT    MAP    🔍    LOG OUT | USER2

Project: the terraces #5022



> BASE MAP

<b>Stage 1 - Interior fit out</b> Impacts 1 Lane Drop	<b>45 Days</b> Start: 02/10/14 End: 26/11/14
<b>Stage 2 - Site establishment</b> Impacts Capacity Reduction	<b>20 Days</b> Start: 25/02/14 End: 18/03/14

**Summary**  
Project ID: 5022  
Last updated: 26/02/14  
Start date: 03/02/14  
End date: 01/12/14  
the terraces project on oxford terrace

**Contact Information**  
antony gough  
antony@gough.com  
080012564



# Demonstration Video

The screenshot displays a web-based map application interface. At the top, a navigation bar includes the text "FORWARD WORKS" on the left, and "NEW PROJECT", "MAP", and a search icon in the center. On the right side of the top bar, it says "LOG OUT | PROJECT PLANNER 1 - CHRISTCHURCH...".

On the left side, there is a "Map Layers" sidebar with a list of layers, each with a toggle switch and a plus sign:

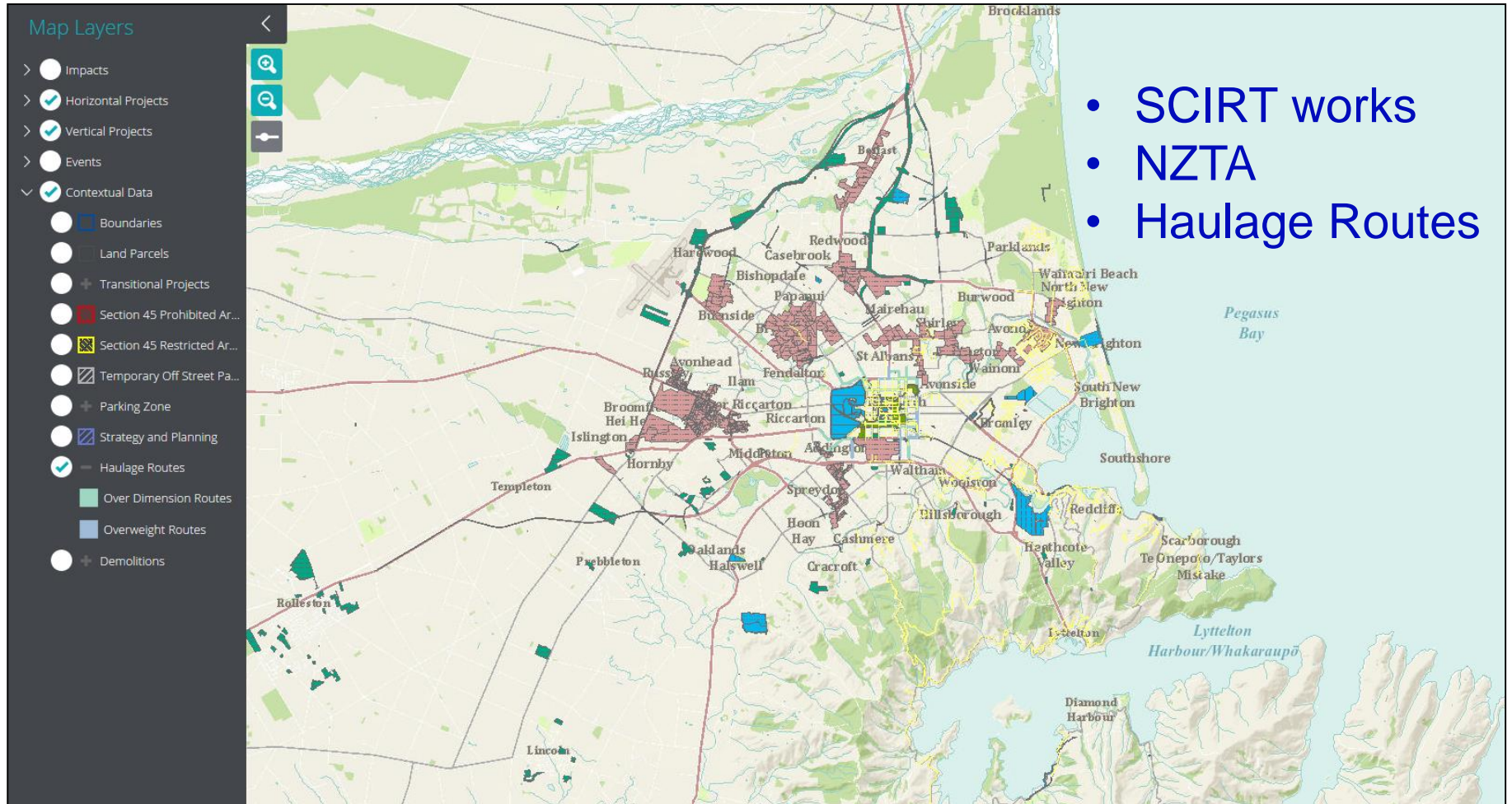
- Impacts
- Horizontal Projects
  - SCIRT
  - CCC
  - NZTA
  - Enable
  - Orion
  - Private Sector
  - Telcos
- Vertical Projects
  - CCC
  - CCDU
  - CERA
  - Private Sector
- Events
  - Events
- Clashes
  - Clashes
- Contextual Data

The central map view shows a street grid with various colored overlays: blue hatched areas, green hatched areas, yellow lines, and purple/pink shaded regions. Labels on the map include "Merivale", "St Albans", "Richmond", "Christchurch Central", "Linwood", "Addington", and "Christchurch Station". A "BASE MAP" button is visible in the top right corner of the map area.

At the bottom of the interface, a footer contains the following links: "Contact", "Terms of use", "Copyright", "Disclaimer", "Privacy Policy", and "Support".



# Forward Work – Canterbury Wide



# So what does the FWV do for the rebuild?

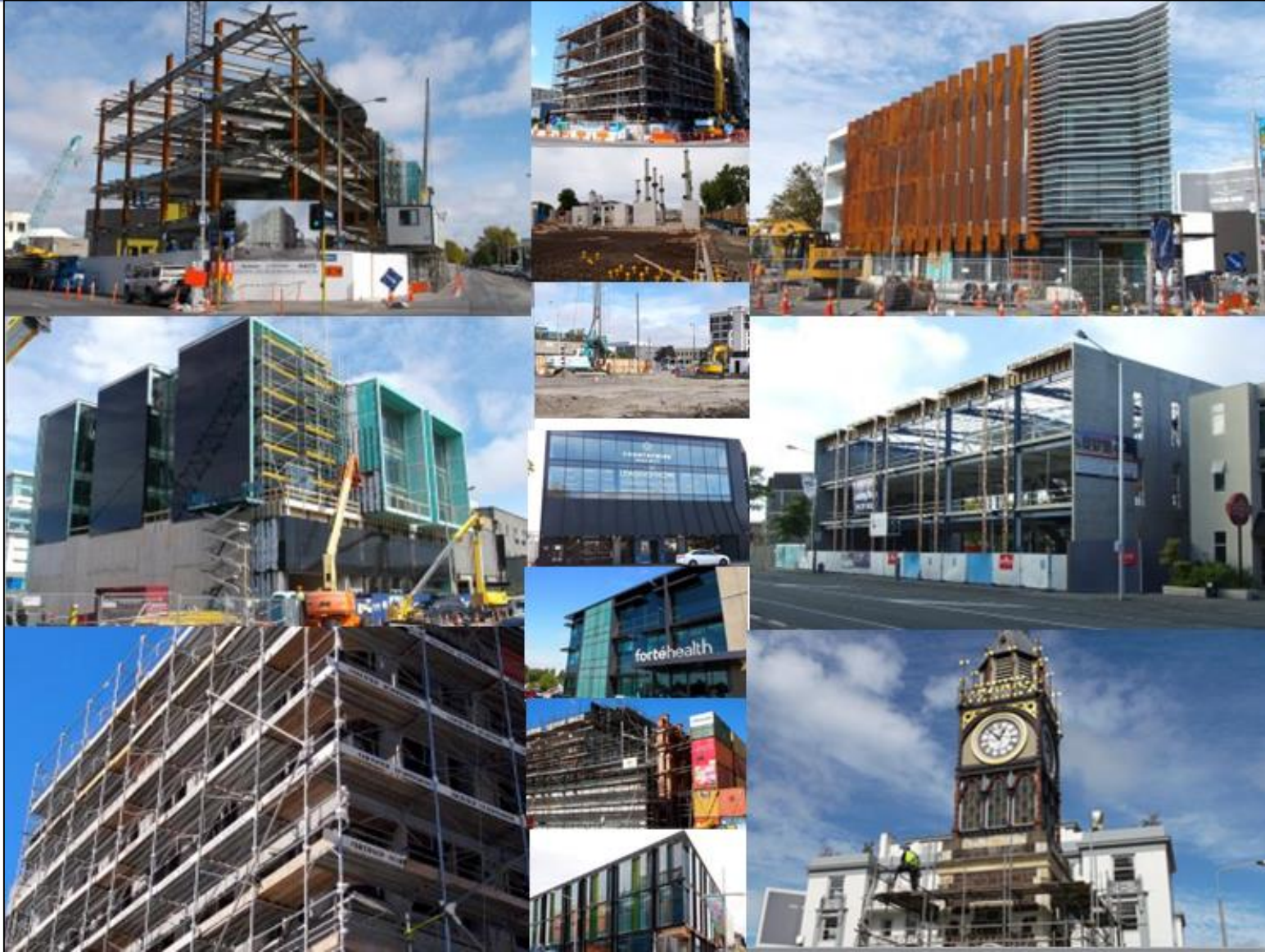
- Opportunities for co-ordination of service installation, trench sharing via the SCIRT, CCDU and Utilities programme
- Programme Delivery
- Efficiencies offered through delivery and resource co-ordination
- A view of all time and space conflicts at 3,6,9 + 12 months and more....
- Understanding the network impacts
- Optimised time and space conflicts
- Procurement patterns and demand
- Nominated haulage routes for over dimensioned and over weight vehicles



# Forward Works Viewer and the Rebuild



# Benefits....



# Questions?

- ❖ What does the Forward Works Viewer not tell you?
- ❖ What information would you like at your fingertips?
- ❖ Do you see the benefits to informing the Forward Works Viewer?
- ❖ Training opportunities





# Contact Details

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**Thank you for allowing me the time to present  
the CMO and the LINZ Forward Work Viewer**

