The South Island Freight Task

Presentation to the Chartered Institute of Logistics and Transport Southern Section AGM

"A more efficient and effective freight system can raise the prosperity of New Zealand's businesses and workers and enhance consumers' purchasing power." -Productivity Commission

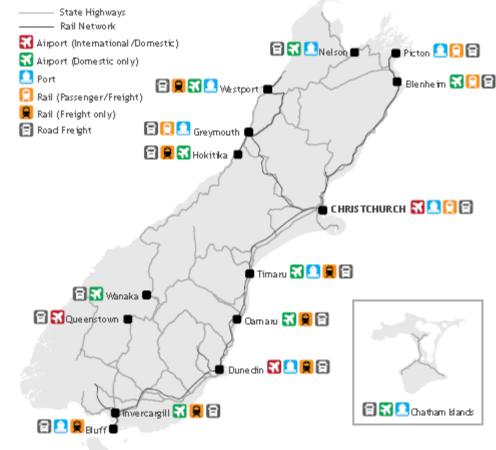


Jim Harland, Regional Director Southern



The South Island Freight Network

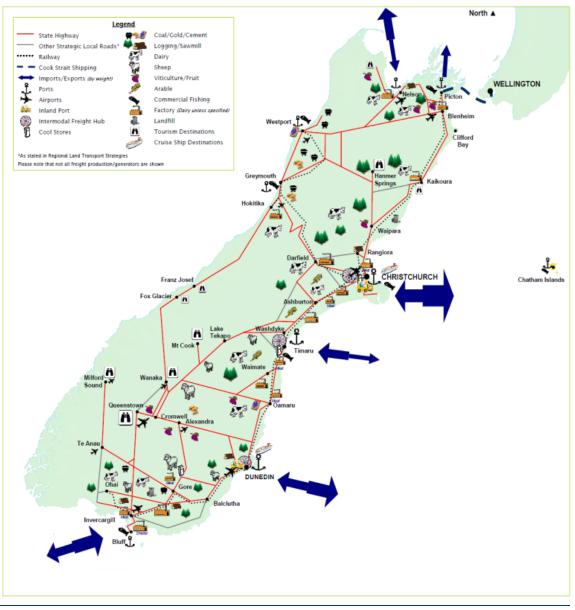
- 4,921km State Highways (12%)
- 35,456km local roads (88%)
- 1,661km rail lines
- 1 long haul international airport
- 2 short haul international airports
- 8 domestic airports
- Two major container ports
- 6 regional ports



Stewart Island

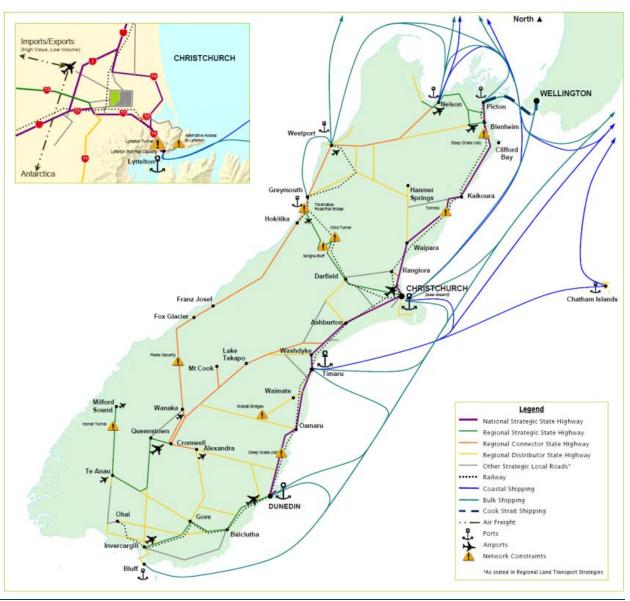


Freight Production Areas





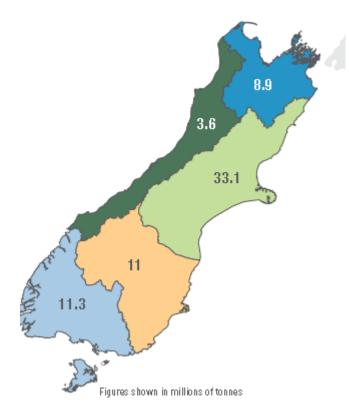
Strategic Freight network

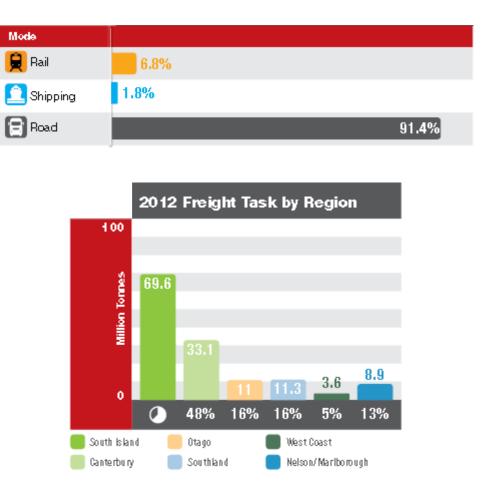




The Current Freight Task

 In 2012, 69.6m tonnes moved, most of it within regions







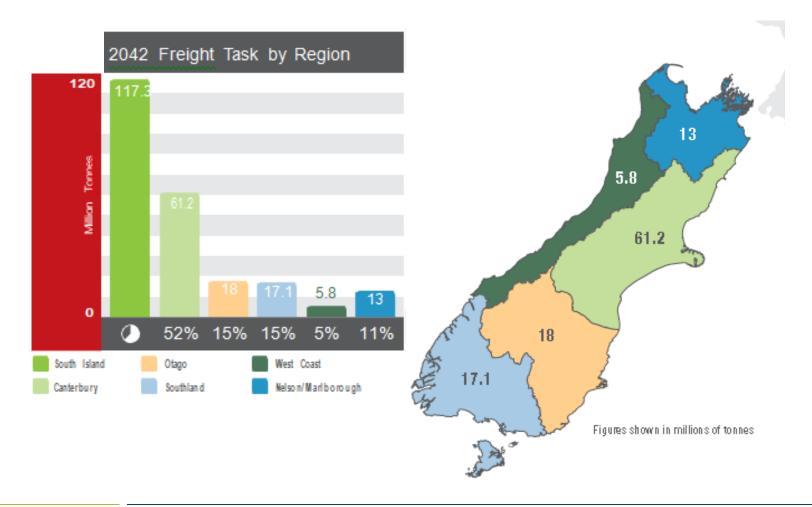
The Demand for Freight in the Future

- Between 2012 and 2042 freight task is predicted to increase by 68%
- This is an increase of 47.7m tonnes to a total of 117.3m tonnes



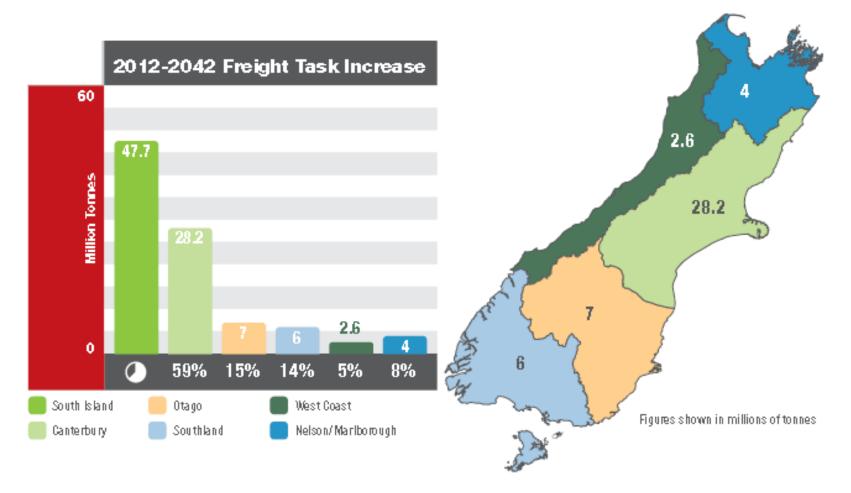


The Regional Demand in the Future





The Regional Increase in Demand



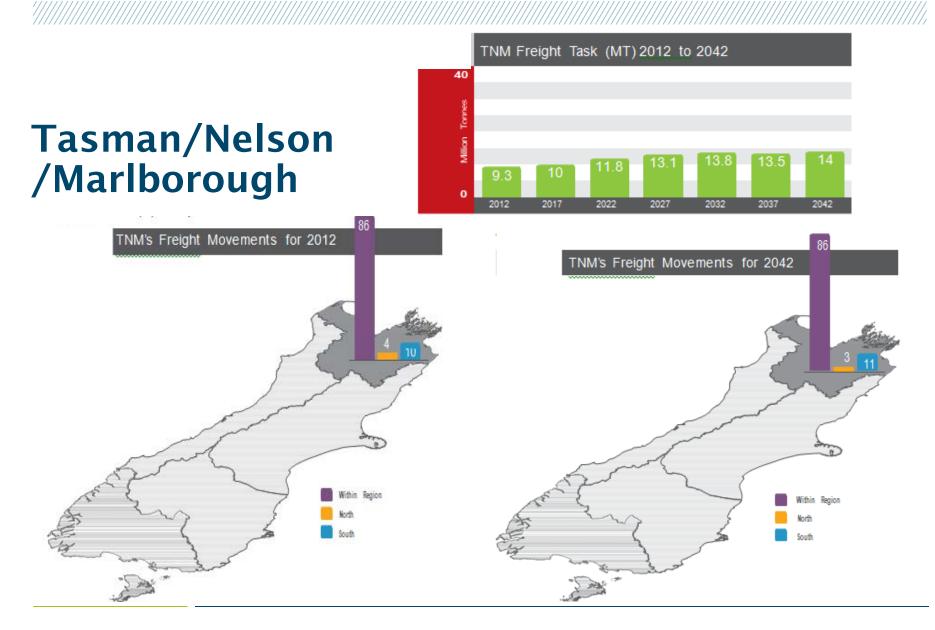


What is driving this demand?

	Forecast Freight growth for the South Island by commodity (million tonnes)								
Comm odity	2012	2017	2022	2027	2032	2037	2042	30 Year Growth (MT)	% of Total Growth
Liquid Milk	7.97	9.98	12.7	13.59	14.48	15.43	16.45	8.48	17.8%
Aggiegate	6.84	8.06	9.21	10.38	11.51	12.66	13.79	6.95	14.6%
General Freight	14.6	15.78	17.03	18.17	19.28	20.34	21.38	6.78	14.2%
Limestone, Cement, Fertiliser	4.33	5.5	6.61	7.84	8.6	9.37	10.11	5.78	12.1%
Concrete	1.86	2.45	3.02	3.57	4.11	4.66	5.15	3.29	6.9%
Manufactured Dairy	2.21	2.79	3.62	3.87	4.19	4.46	4.77	2.56	5.4%
Logs to Sawmills	2.01	2.29	2.61	2.94	3.26	3.58	3.89	1.88	3.9%
Coal	3.16	3.45	3.61	3.76	4	4.34	4.67	1.51	3.2%
Livestock	- 3	3.3	3.75	3.93	4.1	4.32	4.5	1.5	3.1%
Other Retail	1.3	1.4	1.8	2	2.2	2.61	2.8	1.5	3.1%
Inputs to panel making	1.4	1.58	1.8	2.02	2.23	2.44	2.65	1.25	2.6%
Waste	1.73	1.95	2.12	2.33	2.51	2.7	2.87	1.14	2.4%

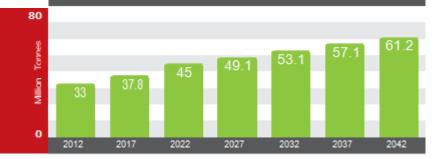
• Of these top 12 commodities, liquid milk and manufactured dairy are driven by export demand. The others are driven by population growth



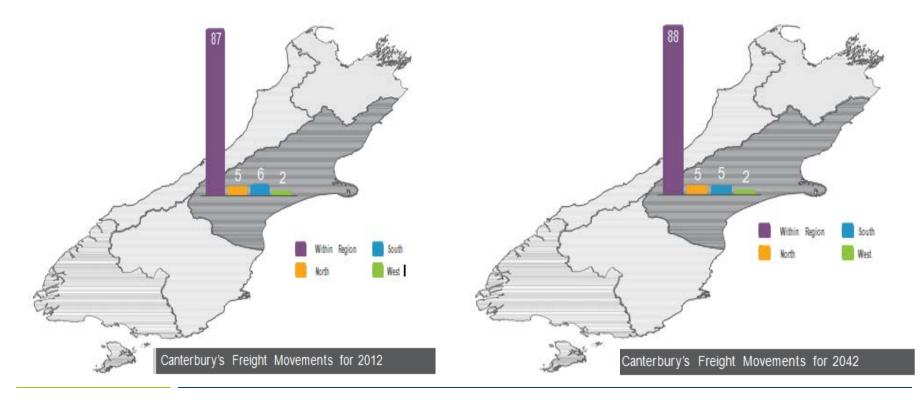




Canterbury Freight Task (MT) 2012 to 2042



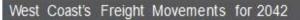
Canterbury

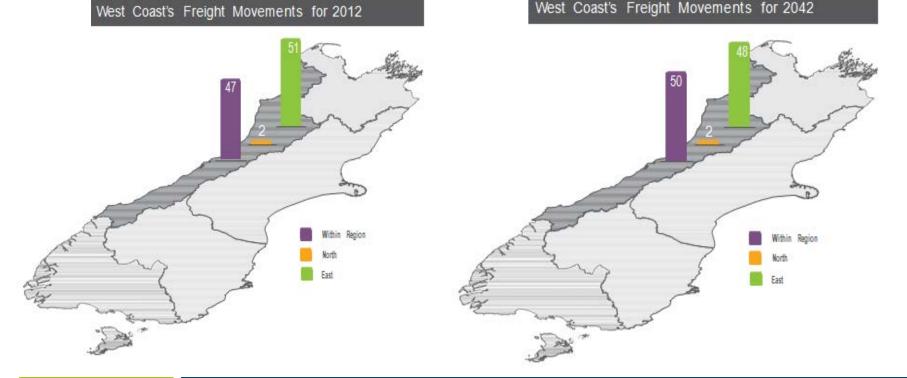




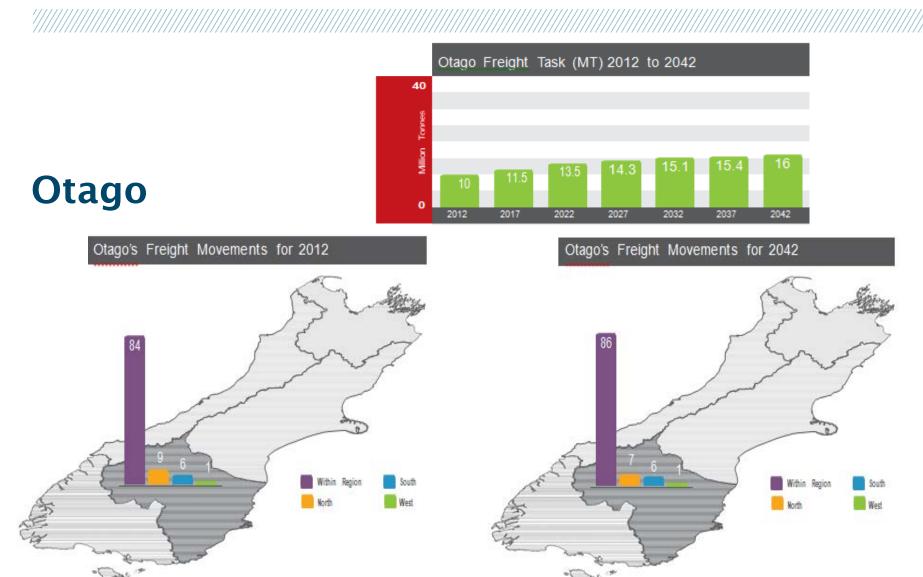


West Coast









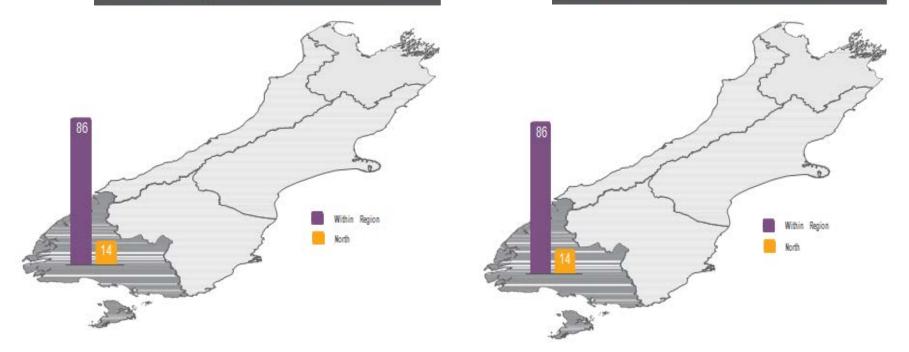




Southland

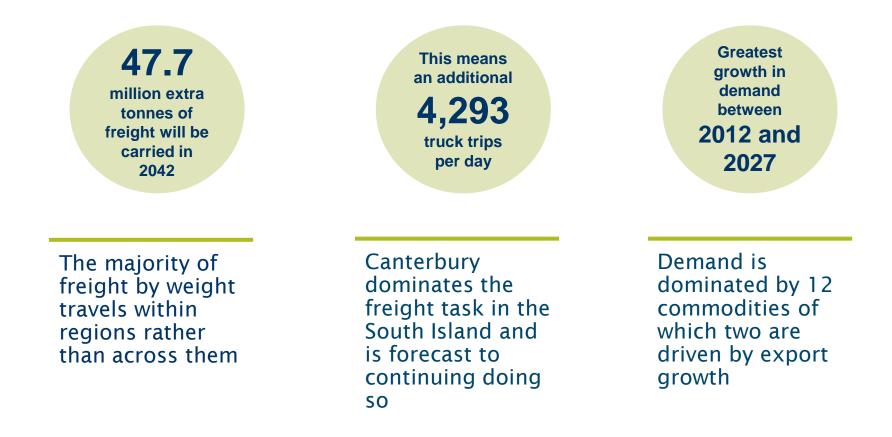
Southland's Freight Movements for 2012







Emerging Discussion Points





What is driving this demand? GCTS 30 yr assumptions

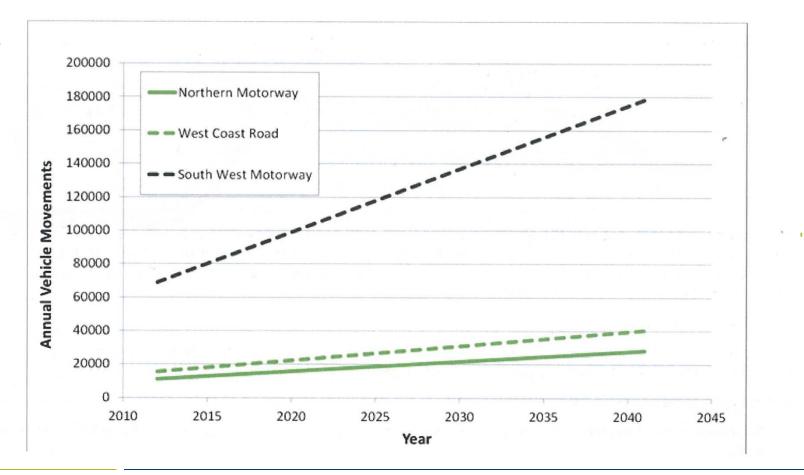
	2010	2041	% increase
Population	435,000	550,000	26%
Households	176,000	240,000	36%
Jobs	200,000	244,000	22%
Daily person trips 🔁	1,860,200	2,360,600	27%
Airport passengers	6m	10.5 - 12m	75-100%
Airport tonnage	120,000	400,000	233%
Port containers (TEU*)	290,000	1,500,000	417%
Coal tonnes	2.3m	5m	117%
Other tonnes	1,910,000	3,260,000	71%
External road flow	33,439	60,618	81%

Volume and value of freight moved through Greater Christchurch by mode

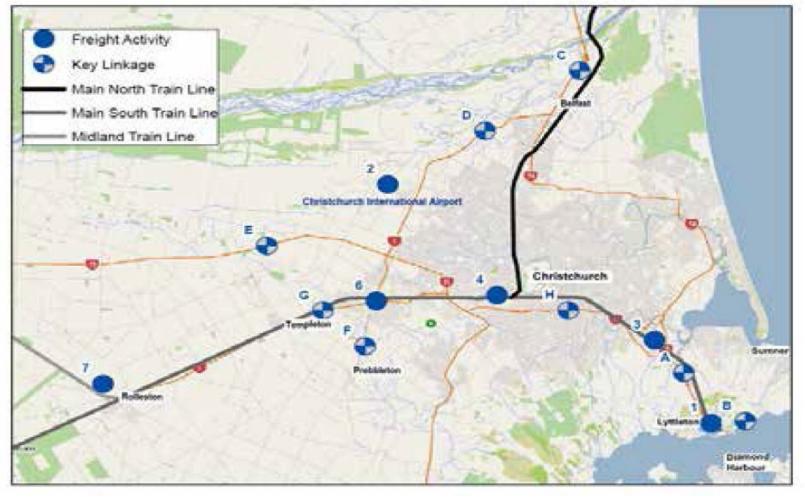
Mode	Volume (tonnes)	% of total Volume	Value	% of total Value	
*	25,000	0.1%	\$2.39bn	4.0%	
	5,297,579	31.0%	\$18.9bn	31.6%	
R	3,251,447	19.0%	\$8.2bn	13.7%	
2	8,524,026	49.9%	\$30.4bn	50.8%	



Freight Vehicle Movements due to imports/exports key greater Christchurch roads









Import Distribution



Figure 7 - Import distribution by commodity and tonnage (2010 values)



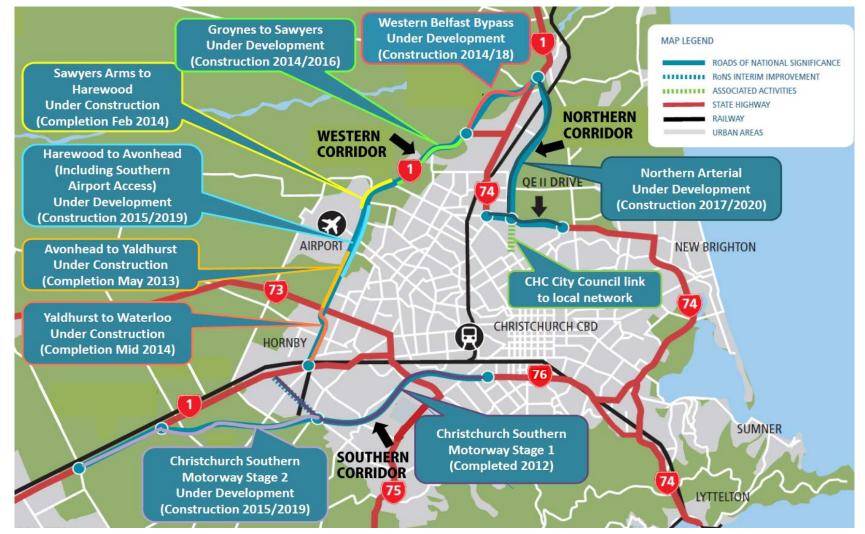
Export Distribution



Figure 6 - Export distribution by commodity and tonnage (2010 values)



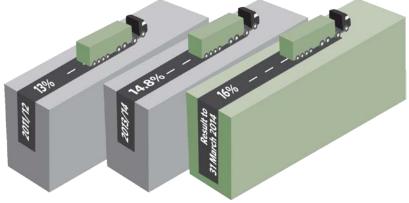
Christchurch RoNS - \$800M + over 10 years



Moving More Freight on Fewer Trucks

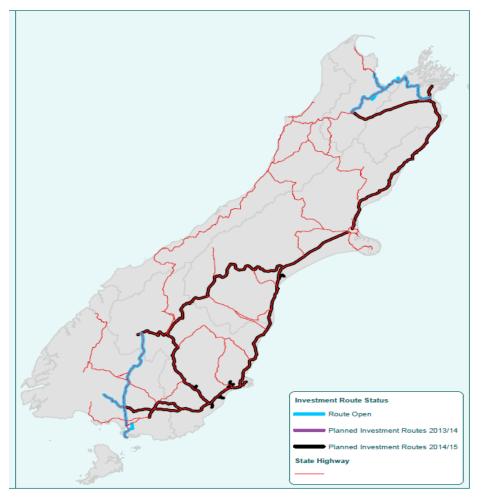


% of travel by HPMV as a total of heavy vehicle kilometres travelled





HPMV Investment Routes Programme

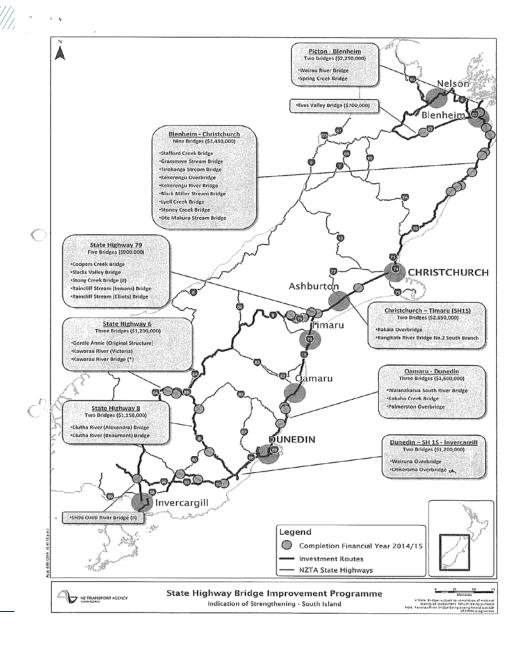


- SH1 Picton to Edendale
- SH79 Queenstown to Christchurch
- Part of the 'tranche one' rollout of routes to be upgraded to HPMV capability
- Pre approved HPMV routes have been agreed with a number of local authorities



HPMV Investment Routes Programme

- Strengthening of bridges is being progressed
- The timeframe for completing this is the end of June 2015





Greater Christchurch Transport Statement Looking ahead, working together



A seamless transport system that:

- Supports earthquake recovery and the growth of Canterbury, and
- Connects people and places with a range of sustainable and affordable transport options.

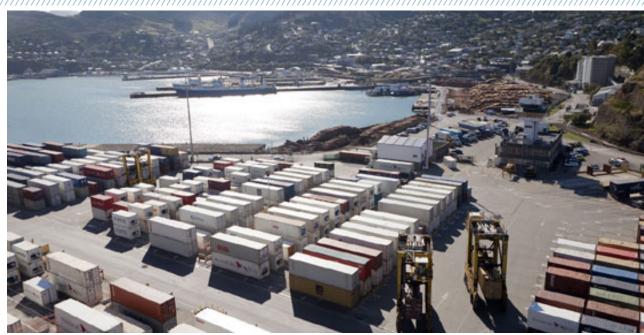
This will be achieved through:

- Integrated decision-making on transport and land use, and
- Aligning our transport investments to get better value for money

Focused on:

- Port Access
- Public Transport
- Western Corridor/Airport
- Nth/Sth Access/Growth
- Central City

Freight Work Streams Underway



National Freight Demand Study – completed Feb 2014

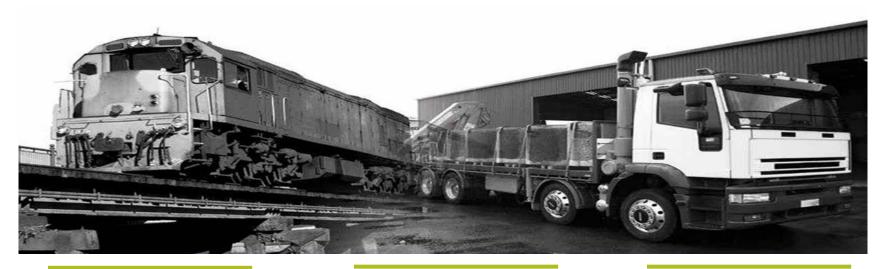
Provides an understanding of the freight sector and forecasts of future activity Lyttelton Access Project – completed June 2014

A technical evaluation of the factors affecting longterm Port access, while also seeking to ensure public and visitor access to the waterfront can be achieved Greater Christchurch Freight Study – due for completion 2014

Forecasts freight growth for Greater Christchurch and explores options to improve resilience



Freight Work Streams Underway



Upper North Island Freight Story

Focussed on reducing the cost to do business in New Zealand through an Upper North Island lens

Central New Zealand Freight Story

A determination of the freight system's efficiency and identification of gaps to be addressed South Island Freight Plan

Development of a shared vision of what we should be doing now and into the future to improve the way freight is moved across the South Island and beyond



Development of the South Island Freight Plan

Collaborative Approach

- Regional Workshops (October 2012 March 2013)
- Governance Group (convened September 2013)
- Working Group (convened August 2014)





