

Road to Zero: Speed & Infrastructure Programme

Transportation Conference
2023

Brydon Sundgren (WSP)
Ben Grapes (Waka Kotahi)



The Problem – NZ's Poor Road Safety

Ministry of Transport: 2021 Crash Statistics

Road Safety Outcomes (2021)

Fatalities	318
Serious Injuries	2,317
Deaths and Serious Injuries (DSIs)	2,635
Minor Injuries	10,935
Social cost of all crashes	\$5 Billion per year



The Tricky Bit

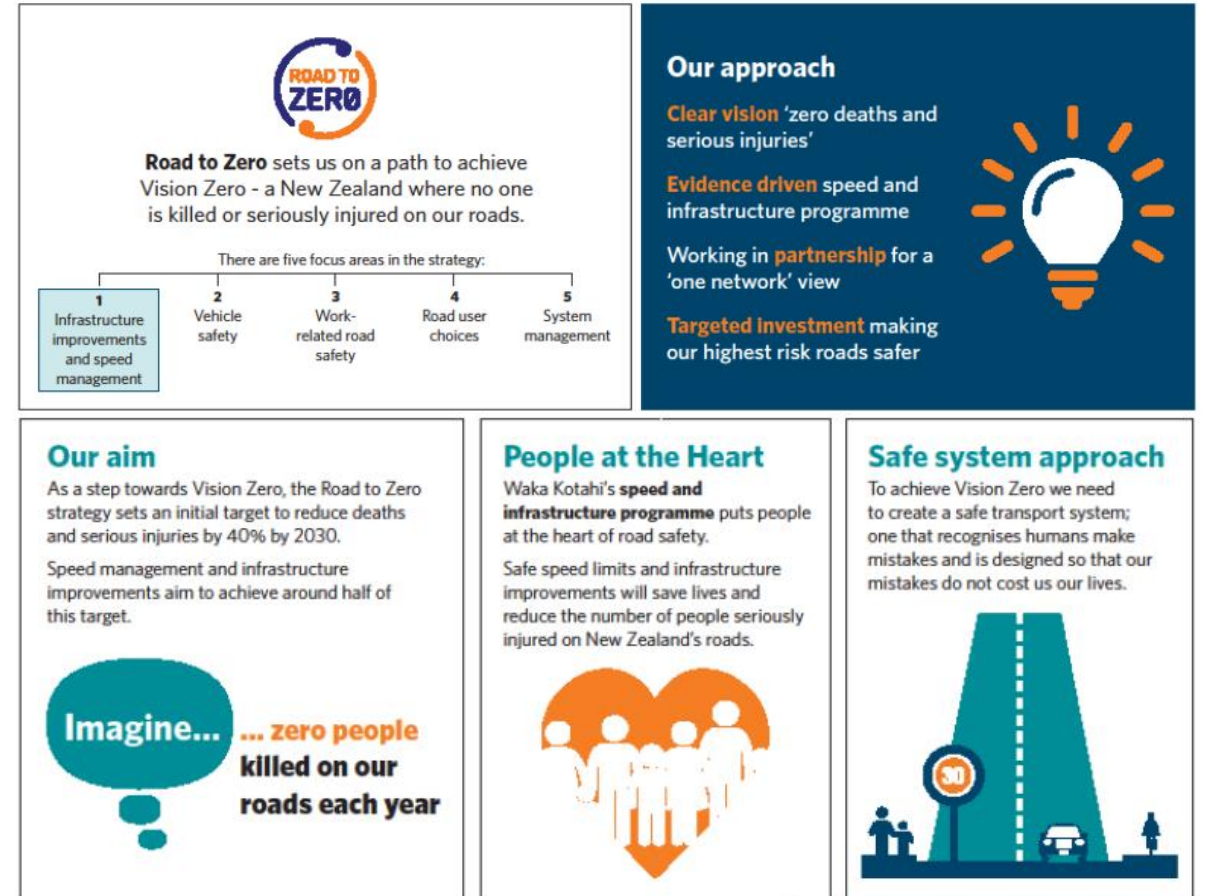
From a Programme perspective



Our Programme

What we deliver

- We are prioritising investment in proven interventions.
- We work in partnership with local government and the wider safety sector to find the right mix of safety solutions for each region.
- It is estimated that improvements delivered through the programme will contribute around half of all the 40% Road to Zero target.
- Key interventions include speed management, median and side barriers, rumble strips, roundabouts and wide centrelines.



Strategic Programme

Indicative 10-year intervention breakdown

WAKA KOTAHI TRANSPORT AGENCY		Safe Networks Pipeline		Feature	Intervention	Number / Length (km)	DSi Saved	Cost (to nearest \$5 million)
Info		To review a project in the Road to Zero implementation, click to select a corridor or intersection on the map.			Speed Management	4,730 km ** (7,290 km) ***	93 **** (253) *****	\$205,000,000
					Rural Safe System Transformation (Median barriers)	999 km	129	\$2,600,000,000

Region	Local Roads	Local Roads Dsi Saved	State Highways	State Highways Dsi Sa	Total Cost	Total Dsi Saved
Northland Region	\$ 59,000,000	8	\$ 369,000,000	35	\$ 428,000,000	43
Auckland Region	\$ 839,000,000	130	\$ 266,000,000	51	\$ 1,105,000,000	180
Waikato Region	\$ 252,000,000	31	\$ 523,000,000	55	\$ 776,000,000	86
Bay of Plenty Region	\$ 71,000,000	10	\$ 262,000,000	26	\$ 333,000,000	36
Taranaki Region	\$ 17,000,000	3	\$ 151,000,000	14	\$ 168,000,000	16
Gisborne Region	\$ 10,000,000	1	\$ 36,000,000	7	\$ 45,000,000	8
Hawke's Bay Region	\$ 50,000,000	7	\$ 162,000,000	15	\$ 213,000,000	23
Manawatu-Wanganui Region	\$ 85,000,000	12	\$ 380,000,000	34	\$ 464,000,000	47
Wellington Region	\$ 95,000,000	18	\$ 230,000,000	25	\$ 326,000,000	43
Top of the South Region	\$ 29,000,000	4	\$ 99,000,000	11	\$ 128,000,000	15
Canterbury Region	\$ 261,000,000	43	\$ 419,000,000	43	\$ 680,000,000	87
West Coast Region	\$ 4,000,000	1	\$ 27,000,000	7	\$ 31,000,000	7
Otago Region	\$ 61,000,000	10	\$ 185,000,000	21	\$ 246,000,000	31
Southland Region	\$ 22,000,000	4	\$ 46,000,000	9	\$ 68,000,000	13
Grand Total	\$ 1,853,000,000	282	\$ 3,157,000,000	352	\$ 5,010,000,000	634
	37%		63%			

Sub-Total	2,326 int	218	\$1,280,000,000
Total	2,326 int / 7,612 km	635	\$5,010,000,000

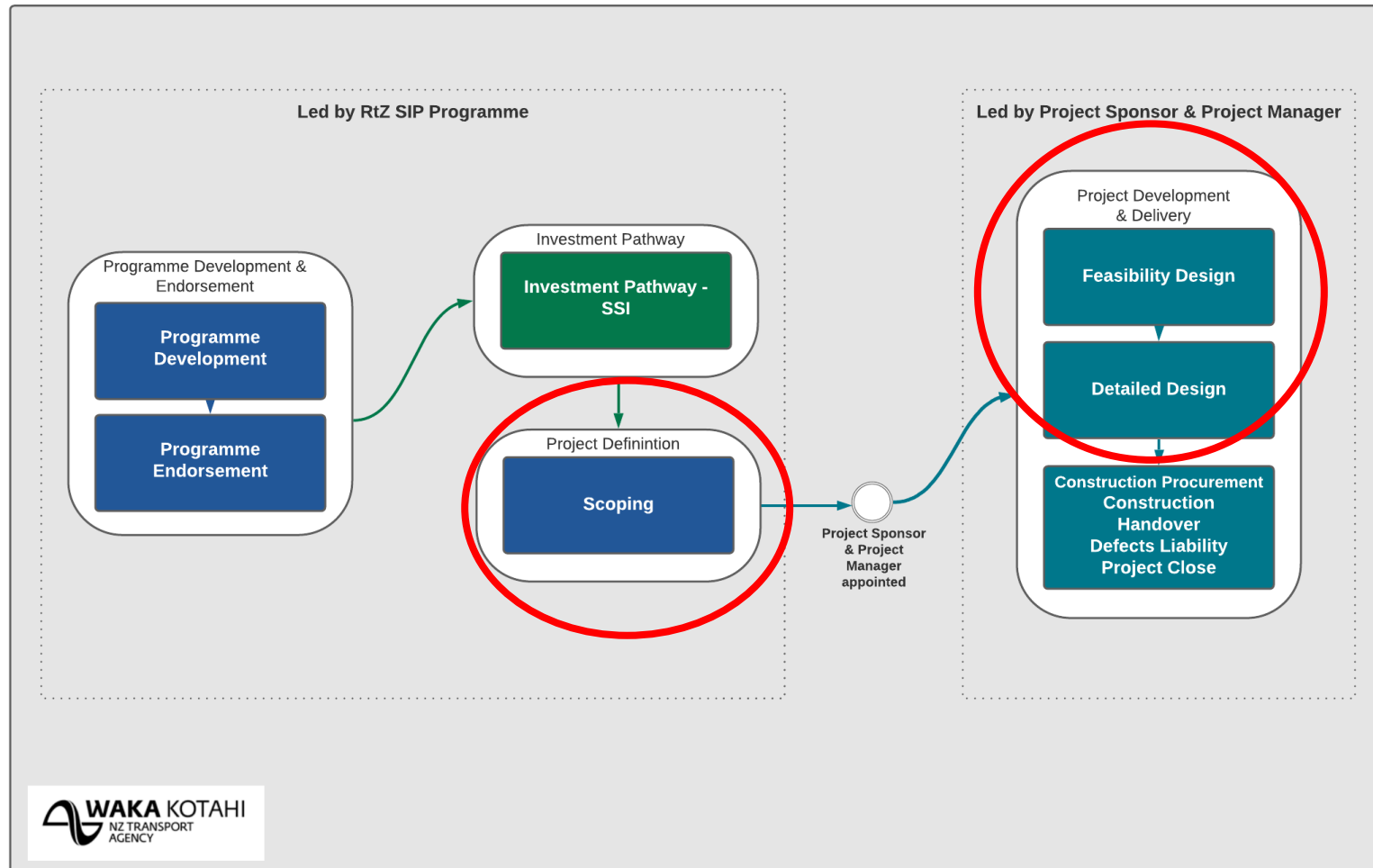
Logout - RequestorNZTA

Filter Removal
▲ LILO
■ Platform

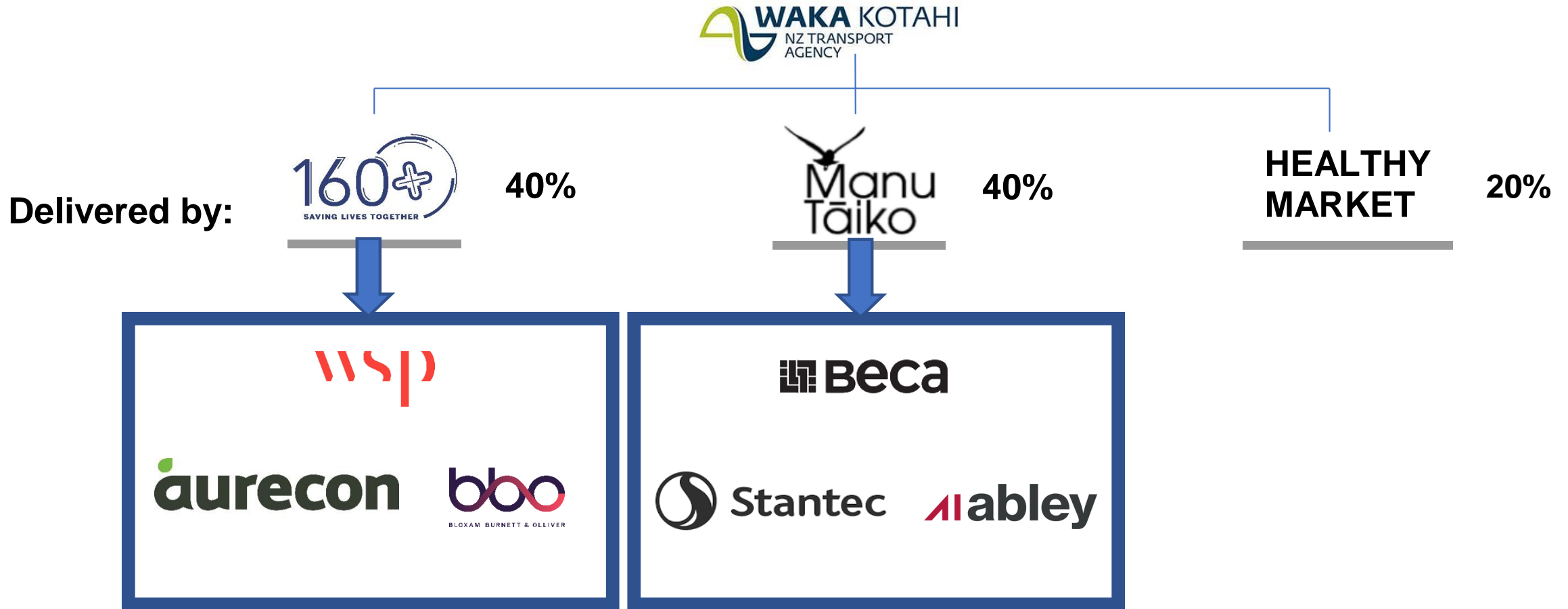


In Summary

Development to Implementation

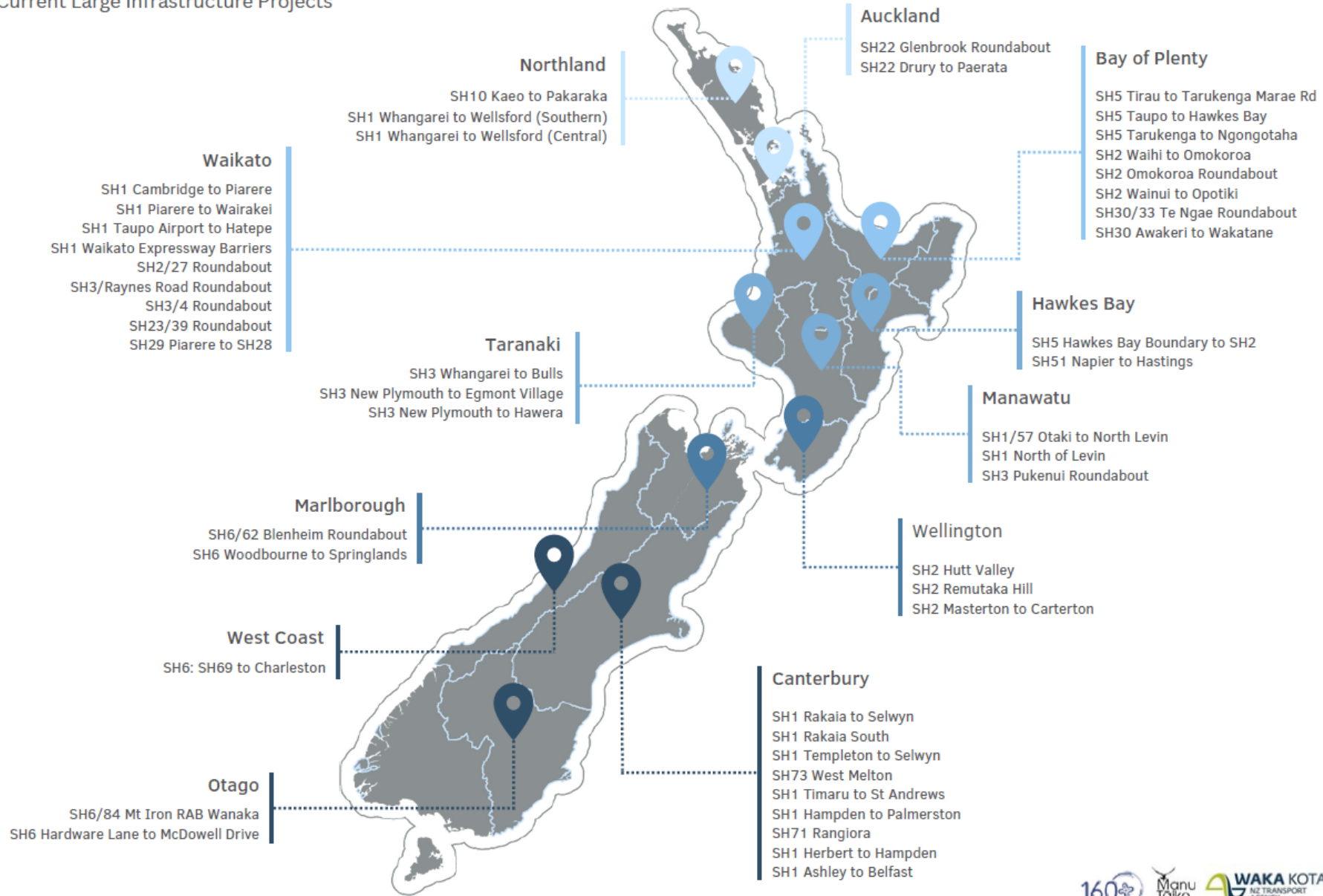


Project Delivery Mechanism



Waka Kotahi Speed & Infrastructure Programme

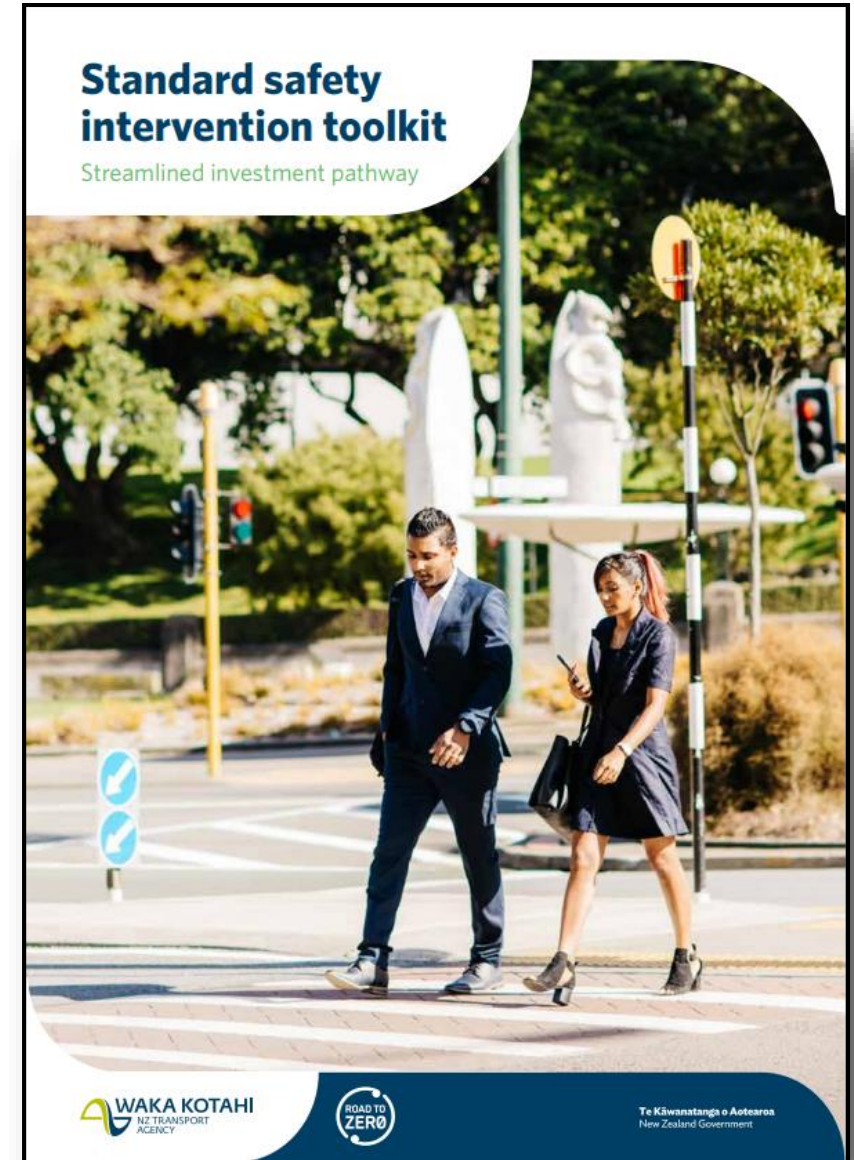
- Current Large Infrastructure Projects



SIP: Points of Interest

Innovation

- SIP Design Framework
- Improving use of data for delivery
- Consistent DSI assessment tools
- Streamlined investment applications



SIP: Points of Interest

Construction Safety

- Use of new NZ Guide to Temporary Traffic Management
- Eliminate
- Isolate
- Minimise



SIP: Points of Interest

Retrofitting Existing State Highways

- Cross-section design
- Co-ordination with other works & maintenance
- Whole of life safety by design
- Corridor use – adapting to the changes
- Communication and engagement



Looking Ahead

Increasing the roll-out of key interventions

Simplify & phase

- Identify what sections of projects we can progress now that don't need detailed design and aren't controversial
- Treatment length approach - break up projects to do the 80%, so the 20% doesn't hold everything up

Pragmatic design

- Clearer guidance to enable repeatable design elements
- Designers not designing from scratch every time

Unlock funding

- Unlock funding now to enable earlier construction (imp and property)
- Beyond this NLTP, move to SIP being funded as a Programme, not individual projects

Procurement

- In 2023/24 procure regional construction frameworks for 10-year partnerships
- Drive more certainty and security to invest in resources to support delivery at the correct scale and pace

Construction

- Improve construction safety for our contractors, lower the unit cost & increase productivity on site through targeted state highway closures
- Closures for weeks rather than 5 years of TTM

Benefits Realisation – sharing the success



IT TAKES TO GET TO NO ONE.

