



TRANSPORT SAFETY

SAFETY/ACCESSIBILITY AUDITS & REVIEWS

ViaStrada is a transport planning and design consultancy based in Christchurch, New Zealand. We offer a range of services to help with transportation projects at any scale.



DESIGN AND SAFETY OVERVIEW

We work with local and national clients to solve design problems involving intersections (including those with traffic signals and roundabouts) and corridors (including speed management), through to concept design, safety audits, and peer review. We provide analysis and provision for public transport, active transport (walking and cycling), and accessibility. We offer a range of services to help property developers, architects, project managers, and councils with transport aspects of development projects.



SAFETY AUDITS AND REVIEWS

All planned, new, or upgraded transport facilities should be assessed for potential safety impacts that the changes may have on various road users, particularly where there is a chance of death or serious injury.

ViaStrada staff are formally trained in road safety and accessibility audits, safe system assessments, and Level Crossing Safety Impact Assessments (LCSIAs). We also conduct peer reviews of the safety effects of other changes to transport networks.



HOW WE CAN HELP

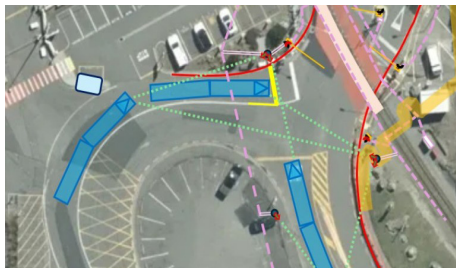
We offer a range of services to transport agencies, councils, and developers, including:

- Safe system assessments and road safety audits of existing and proposed sites, at all stages of design, or post-construction
- Level Crossing Safety Impact Assessments (LCSIAs) for new or upgraded railway crossings
- Crash investigation analysis
- Transport safety policy research
- Accessibility audits for active mode users
- Safety assessments of speed management measures
- Identification of best-practice Safe System road, intersection, or crossing facilities

Our expertise includes:

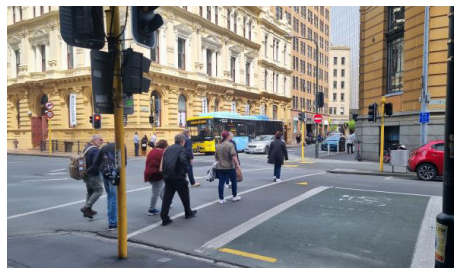
- CAS crash data extraction and factor analysis
- Road and intersection crash prediction estimation
- Speed management planning and implementation
- Case-Control statistical assessment of Before-After safety treatments
- Safe System Assessments and Audits
- Safety aspects of transport planning and Integrated Transport Assessments (ITAs) to support resource consents

Project examples



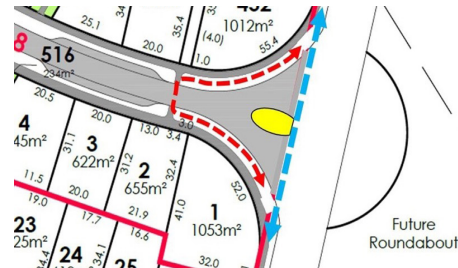
Lyttelton Port safety reviews and design concepts | LPC

2017–26 | ViaStrada supported Lyttelton Port Company in addressing rising traffic and rail volumes by assessing level crossing safety, road layout options, and access systems. Using LCSIA and roadway layout design and rail crossing expertise, we recommended improvements to enhance safety for trains and manoeuvrability for heavy vehicles near the port's main gate and cruise terminal.



Wellington city street audits | WCC & Let's Get Wellington Moving

2023–25 | ViaStrada conducted Safe System Audits for Wellington corridor and intersection upgrades. The focus was safer multi-modal journeys to help make Wellington accessible to all. Separately we reviewed designs and final implementations of several cycleway projects around Wellington.



Greendale Road subdivision SSA | DLS & Cressy Properties Ltd

2025 | ViaStrada's Safe System Audit for Cressy Properties' 500 lot Darfield subdivision recommended a range of minor improvements to enhance pathway connections, and proposed interim intersection treatments for future refinement.



Main North Road bus priority lane | CCC

2017–20 | ViaStrada undertook scheme and detailed design and post-construction Road Safety Audits for public transport priority treatments for Main North Road in Papanui. Christchurch City Council proposed a series of intersection and mid-block measures including bus lanes, new kerb lines and road signs/markings, and adjusted walking and cycling facilities.



Accessibility audits for the DOC estate | DOC

2025–26 | ViaStrada recently completed an accessibility pilot project for the Department of Conservation, auditing more than 50 high-traffic trails and campsites around the country. We recorded data such as gradients and crossfalls with Smart Access carts, and our auditors also took field notes and photographs. Our recommendations addressed the current challenges at each site.



Regional speed management workshops | NZTA

2022 | ViaStrada helped to facilitate three industry workshops (Hawkes Bay, Wellington, Canterbury) that brought together regional and local authority representatives to coordinate Regional Speed Management Plans under the 2022 Speed Limit Rule process.



For more information contact Glen

Glen Koorey | BE(Hons), ME(Civil), BSc, PhD(Trptn), FEngNZ
Director & Principal Transportation Engineer & Planner
glen@viastrada.nz | 027 739 6905

VIASTRADA
TRANSPORT PLANNING AND DESIGN