



Future Roads

The New Zealand roading industry conference

20-21 November 2024
Claudelands Events Centre
Hamilton



OPTIMISING YOUR ROADING INVESTMENT

FEATURED SPEAKERS



Dean Kimpton
Auckland Transport



Murray Robertson
Downer



Jacqui Hansen
IPWEA



Andrew Clark
NZ Transport Agency
Waka Kotahi



Nicole Rosie
NZ Transport Agency
Waka Kotahi



Laurence Pidcock
Ministry of Business,
Innovation and Employment



Jessica Long
Porirua City Council



Shyamal Ram
Waitomo District
Council



Andrew McRae
Higgins



Alison Murray
NZ Transport Agency
Waka Kotahi



Andrea Reeves
Wellington City
Council



Sarah Sinclair
MinterEllisonRuddWatts

- ▶ leadership
- ▶ materials
- ▶ procurement
- ▶ technology
- ▶ resilience
- ▶ sustainability
- ▶ projects
- ▶ experts

New Zealand
roading industry
Rising Star Award
NEW FOR 2024

Gold sponsor



Sponsors

Supporting organisations



www.futureroads.co.nz



ANNUAL ROADING SECTOR CONFERENCE

Future Roads is a two-day conference and exhibition for the New Zealand roading sector providing a forum for strategy, discussion, and execution.



MESSAGE FROM INFRASTRUCTURE NEW ZEALAND

Infrastructure New Zealand is proud to support the 2024 Future Roads conference. INZ recognises the roading network's important contribution to New Zealand's productivity and wider transport system. Our team looks forward to engaging with this year's topic – Optimising your roading investment – as our sector discusses and debates the future of New Zealand's roads in the face of climate change and other pressing challenges. See you there.

Nick Leggett, *chief executive officer* – Infrastructure New Zealand



MESSAGE FROM CIVIL CONTRACTORS NEW ZEALAND

Civil Contractors has represented New Zealand's road construction companies since 1944 and is proud to support the 2024 Future Roads conference. The coalition Government recently released its Government Policy Statement on Land Transport, including increased funding for both capital and maintenance projects. Our civil contractor members will play a pivotal role in delivering these projects, for the benefit of our communities. Future Roads comes at a good time, with the change of government and changes coming within the sector. If the investment programme is to succeed, all stakeholders need to be heading in the same direction with common goals and a common understanding of what lies ahead. Future Roads provides a great forum to achieve that.

Alan Pollard, *chief executive officer* – Civil Contractors New Zealand



FUTURE ROADS 2023 HIGHLIGHTS

"Well organised, good variety of exhibitors and presentations. Good catering, great location."

"Great people, great culture, great networking, 10/10."

"Excellent selection of speakers and range of sessions. Great international speakers also."

"Because of knowledge, information, and interaction was highly valuable."

"Enjoyed being a exhibitor for Future Roads 2023."

"Many thanks to all for a well arranged and managed event that allowed me to focus on the topics instead of logistics."

"...generally quite good time for questions, and good use of technology."

"Thanks everyone, great few days."

PROGRAMME – DAY 1 [WEDNESDAY 20 NOV 2024]

7.25am REGISTRATION, TEA AND COFFEE | TRADE EXHIBITION OPEN

8.00am MIHI WHAKATAU

8.10am WELCOME FROM THE MC

Maurice Hoban – *principal, NZ pacific leader, GHD*

LEADERSHIP

8.20am MINISTERIAL ADDRESS

The roading network is at the core of the new government's priorities around improving our infrastructure. We need to move ahead as a country that is connected both in urban centres and in the regions with a fit-for-purpose and high-functioning transport network. To this end the Government has announced thirteen new RONS projects and allocated additional funding to road maintenance and improvements.

- funding and financing. Modernising the Crown's finance governance to allow for more private funding
- congestion needs to be reduced in high-growth areas which will help to reduce emissions
- local government funding
- reducing waste around time and resources spent on broader outcomes
- RONS update

Hon Simeon Brown – *Minister of Transport, Minister of Local Government, Minister for Auckland*

8.45am LEADERS' PANEL: LOOKING TO NEXT YEAR'S WORK PROGRAMME

How will the next three years look for the roading industry? Priorities and investment have shifted but what does this mean for councils and contractors and is 'doing more with less' still happening or is it more about finding efficiencies?

- unpacking the NLTP
- paring back broader outcomes
- alternative financing and investment models
- lowering compliance costs
- consenting state of play

Panelists: **Dean Kimpton** – Auckland Transport, **Murray Robertson** – Downer, **Guy Spence** – WSP, **Fiona Carrick** – Te Waka - Waikato Economic Development, **Andrew Clark** – NZ Transport Agency Waka Kotahi
Facilitator: **Adrienne Miller** – UDINZ

9.45am SPONSOR ADDRESS

10.05am KEYNOTE ADDRESS: STATE OF PLAY AND OUR NEW DIRECTION

With a new government, chair and GPS on land transport well bedded in, the country's transport agency now sets about its work. So what does this look like for our roading network and where are some of the previous initiatives now placed?

Nicole Rosie – *chief executive, NZ Transport Agency Waka Kotahi*



10.30am MORNING TEA AND NETWORKING | EXHIBITION HALL PRESENTATIONS

FOCUS | MATERIALS

11.00am INTRODUCTION FROM THE CHAIR

Mike Chilton – Aggregate & Quarry Association

11.05am PANEL DISCUSSION: SOURCING RECYCLED AGGREGATES FOR YOUR PAVEMENT

Recycled aggregates provide a number of advantages over virgin materials when delivering a quality pavement. It has been demonstrated that recycled aggregates have reduced emissions and can provide superior performance.

- the role of recycled aggregates in your roading materials strategy. The role of emission reduction targets
- de-risking the final outcome. What specifications and processes are required to ensure success?
- availability, where to source and how this can impact the cost equation
- road types suited to recycled aggregates and what the specs say – high volume, low volume, State Highways
- sustainability outcomes and how to communicate these to your stakeholders
- the availability of recycling centres for raw inputs and how the waste minimisation levy is changing behaviour

Panelists: **Dave Morgan** – Green Vision Recycling, **Peter Fredricsen** – Rotomara Contractors

Facilitator: **Stacy Goldsworthy** – Winstone Aggregates

11.30am

FOCUS | PROCUREMENT

11.00am INTRODUCTION FROM THE CHAIR

Angela Hirst – Hastings District Council

11.05am PROCUREMENT UPDATE: NZ TRANSPORT AGENCY WAKA KOTAHI

The national transport agency is overhauling procurement across its roading spend.

This will see the incumbent NOC model for state highway maintenance procurement replaced and a more system-wide and regionalised approach.

Alison Murray – *head of procurement, NZ Transport Agency Waka Kotahi*



CHANGES TO STATE HIGHWAY MAINTENANCE

The new Integrated Delivery Model for state highway maintenance is set to be rolled out in early 2025. Significant changes are afoot.

- how the IDM works and what this means for your organisation
- Temporary Traffic Management
- 24-hour pothole repair
- efficiencies gained through road closures for major maintenance and repairs (case study – Central Waikato)

Andrew Clark – *national manager maintenance & operations, NZ Transport Agency Waka Kotahi*



12.00pm

REDUCING MATERIALS COSTS: ALTERNATIVES TO THE M/4 SPEC

It is a common misconception that you need to use the M/4 gravel specification in all instances.

- relevant overseas developments
- alternatives to M/4
- incorporating local materials

Bryan Pidwerbesky – *technical director - pavements*, Fulton Hogan



UPDATE ON GOVERNMENT PROCUREMENT

Where is government procurement heading and how will the new government procurement rules impact the roading sector and what does the new framework look like?

- the drivers for change
- new procurement behaviours being encouraged

Laurence Pidcock – *general manager NZ Government procurement*, MBIE

12.30pm

NETWORKING LUNCH IN THE EXHIBITION AREA | EXHIBITION HALL PRESENTATIONS

FOCUS | MATERIALS

WELCOME BACK FROM THE CHAIR

Mike Chilton – Aggregate & Quarry Association

ACHIEVING SKID RESISTANCE WITHOUT COMPROMISING THE QUALITY OF YOUR PAVEMENT

Factors to consider when incorporating skid resistance into your road surface specification include cost, material availability, pothole risk, durability, and lifecycle.

- using hot chip to achieve texture without reducing waterproofing through watercutting
- using a flushing model to help determine pavement end-of-life
- reducing short term SCRIM sealing by promoting the use of aggregate performance data

1.30pm

1.35pm

2.00pm

INTERNATIONAL SPEAKER: DEVELOPMENT OF A NEW LIME-BASED BINDER BLEND FOR SOIL STABILISATION APPLICATIONS

This case-study presents the development of engineered low carbon cementitious binders that can permanently modify and strengthen a broad spectrum of soil types.

- lowering plasticity of soils
- comparisons to cement for 7- and 28-day unconfined compressive strength (UCS)
- comparisons to quicklime
- lowering the volume of binder used

Narain Hariharan – Graymont



2.30pm

CHANGES TO NZ STEEL'S HIGH-STRENGTH MELTER SLAG AGGREGATES, AND HOW TO ACCESS

NZ Steel's melter slag aggregate (GMA) is a high-performance synthetic aggregate used to provide skid resistance on road surfaces. NZTA currently underwrites 60% of the supply of GMA.

Colin Morgan – NZ Steel

FOCUS | TECHNOLOGY & LOGISTICS

INTRODUCTION FROM THE CHAIR

Kahn Day – Tauranga City Council

HARNESSING ADVANCED TRANSPORT DATA SOURCES: INSIGHTS FROM HAMILTON

Hamilton City Council will share its insights from some of the latest transport data sources available.

- telemetry data from providers such as Near, ERoad, TomTom, and CompassIoT
- video analytics for safety assessments from AMAG and Vivacity
- drone surveys by Urban Connection

John Kinghorn – Hamilton City Council



THE NEW ZEALAND BITUMEN SUPPLY CHAIN AND CONSIDERATIONS AROUND COST, QUALITY AND AVAILABILITY

The bitumen landscape has changed significantly since the closure of Marsden Point and exit from the market of Z Energy. In this presentation we hear about the bitumen supply chain as it stands today, where it is headed and considerations for the roading industry.

- current importing, storage, blending/treatment and distribution
- room for another bitumen importer
- NZTA's role and whether its import specifications are too rigid

THE CASE FOR CONCRETE ROADS

This year Infometrics updated The Case For Concrete Roads report, most recently revised in 2020. Economist Gareth Kiernan will present the report's findings, in comparing the costs of building concrete and conventional roads, and making observations on relative price volatility, and carbon footprint.

Gareth Kiernan – Infometrics

3.00pm

AFTERNOON TEA AND NETWORKING | EXHIBITION HALL PRESENTATIONS

3.30pm

DRIVING MORE VALUE OUT OF YOUR ROAD MAINTENANCE CONTRACT: HIGGINS

Higgins is one of the largest full-service roading contractors in New Zealand providing roading maintenance and construction, asphalt products, and the importation and supply of bitumen. It is part of the Fletcher Building group.

New general manager Andrew McRae returns from a long stint in Australia and provides an update on the group and its key priorities moving ahead, and advice around what road owners can do to better leverage their investment.

- placing downwards price pressure on non-essential contract items
- trends we're seeing in procurement and advice for models that work
- how we leverage and sub in local contractors
- bitumen supply and asphalt production capacities across Higgins

Andrew McRae – *general manager*, Higgins



3.55pm

ROAD USERS' PANEL

The heavy vehicle and public transport sectors are important stakeholders in the roading network. In this panel we look at:

- current fleet trends
- changes in average trip distances and routes and the impact of technology
- driver behaviour
- roads/regions we avoid and our wishlist for the network

Panelists: **Delaney Myers** – Bus and Coach Association, **Andrew McGill** – Auckland Transport, **Mathew Sheldrake** – Sheldrake Haulage, **Ian Wilson** – J Swap

Facilitator: **Dom Kalasih** – Transporting NZ



4.40pm

INTERNATIONAL SPEAKER: HOW DO WE FIX OUR LOCAL ROADS?

An analysis of the Australian situation, based on 20 years of data, followed by recommendations to government on how to fix local roads and give communities the roads they need. More funding is important but the sustainable, long-term solution lies in better asset management.

Jacqui Hansen – senior asset management advisor, IPWEA



5.10pm

WRAP-UP – END OF DAY 1

Maurice Hoban – GHD

5.15pm

NETWORKING DRINKS

6.15pm

FUTURE ROADS DINNER

The ticketed dinner will feature a three-course meal, great networking, entertainment and awards.



PROGRAMME – DAY 2 [THURSDAY 21 NOVEMBER 2024]

7.45am

REGISTRATION, TEA AND COFFEE | TRADE EXHIBITION OPEN

8.20am

DAY TWO WELCOME AND RE-CAP

Sarah Sinclair – partner, MinterEllisonRuddWatts



8.30am

THE FUTURE OF THE TRANSPORT REVENUE SYSTEM

The Government has set out its priorities for the transport system over the next 10 years via the Government Policy Statement on land transport 2024-34 (GPS 2024).

- road user charges for petrol vehicles
- tolling legislation reform and application
- legislation for time of use charging to improve network efficiency and reduce congestion

Matt Skinner – manager, revenue, Ministry of Transport

9.00am

PANEL DISCUSSION: FUNDING ALTERNATIVES FOR LOCAL GOVERNMENT TRANSPORT PROJECTS

Much has been said recently about alternative funding models for infrastructure and it will be interesting to see where the Government lands later this year with signalled changes to the Infrastructure Funding and Financing Act. By the time of the conference, policy should also be in place around city and regional deals. In this panel we take a look at the opportunities and considerations for councils when it comes to roading projects.

Panelists: **Andrea Reeves** – Wellington City Council, **Ian Purdy** – ACC, **Stuart Cross** – Morrison Low, **Louise Marsden** – Mafic Partners, **Paul Davidson** – Tauranga City Council

Facilitator: **Craig Rice** – PwC

9.45am

PANEL DISCUSSION: PRIORITISING ROADING BUDGETS AND THE ROLE OF INNOVATION

This panel discussion canvases different councils around how they make the roading dollar go further.

- low-cost maintenance techniques and materials
- chipseal alternatives
- raising your drainage spend to combat changing weather patterns and protect your network
- understanding different asset classes and what they cost, lifecycles and how to maintain them
- decision-making optimisation around asset management
- hot cutback bitumen vs emulsion. What is the capacity in my district to produce this and what are the risks?

Panelists: **Daniel Erard** – Tararua Alliance, **Attinder Singh** – Waikato District Council,

Carol Ma – HEB Construction, **Jarrold Bates** – Fulton Hogan

Facilitator: **Richard Parsons** – Beca

10.30am

MORNING TEA AND NETWORKING | EXHIBITION HALL PRESENTATIONS

11.00am

ROUND TABLES

HOW TO STRUCTURE AN ALLIANCE CONTRACT

Jon Varndell – group director - civil infrastructure, AECOM

WHAT DOES A WORTHWHILE EPD LOOK LIKE TO A ROADING AUTHORITY?

Bernie Napp – director, Prospect Consulting

MANUFACTURED SAND AS AN ALTERNATIVE TO NATURAL SAND

Wayne Scott – CEO, AQA

SUPPORTING YOUR WORKFORCE CAPABILITY NOW AND INTO THE FUTURE

Sue Hawkins and **Kat Ricketts** – Waihangā Ara Rau

UNDERSTANDING THE NEW FAST-TRACK CONSENTING FRAMEWORK

Geoff England – senior principal - planning, Boffa Miskell

HOW AND WHY TO PROPERLY SCOPE THE BUSINESS CASE FOR YOUR ROADING PROJECT UP FRONT

Wayne Stewart – principal project director, WSP

GRADING AND MAINTENANCE OF UNSEALED ROADS

Simon Hunt – strategic asset engineer, Fulton Hogan

UNDERSTANDING WEATHER BARRIER: A CURING AGENT FOR CHIPSEAL BITUMEN EMULSION

Nik Vishwanath – product manager, Road Science

CHANGES TO STATE HIGHWAY MAINTENANCE: Q&A AND EXTENDED DISCUSSION

Andrew Clark – NZ Transport Agency Waka Kotahi

12.30pm NETWORKING LUNCH IN THE EXHIBITION HALL

1.30pm DOES SUSTAINABILITY MEAN HIGHER COST?

When assessing the viability of transport projects, the various desired outcomes can sometimes seem in conflict. This can lead to significant trade-off. Stiffer, smoother roads cost more upfront but deliver lower risk, lower maintenance assets.

This presentation will discuss the relationship between the economic viability and sustainability of common NZ pavement treatments, looking at areas of alignment and trade off, and how they can contribute to the bigger economic and sustainability picture.

Mark Cruden – *director*, Meyer Cruden Engineering



2.00pm PANEL DISCUSSION: YOUTH LEADERSHIP

The New Zealand roading sector competes for talent like any other sector, and labour is mobile. Particularly the project-based nature of some of the work done in the sector makes attracting, retaining, and advancing youth a priority for management.

What makes the sector attractive to work in and how we can improve as an employer of choice across local government, consultancy, and contractors?

Panelists: **Shyamal Ram** – Waitomo District Council, **Jessica Long** – Porirua City Council, **Siddharth Rana** – Ventia

Facilitator: **Cara Lauder** – Ventia

3.00pm CASE STUDY: EXTENDING YOUR ROAD LIFE. WHEN TO USE REJUVENATORS AND WHEN TO LET A ROAD GO

The key to using rejuvenation products is knowing when to apply them. If applied at the right time you can add 5-10 years to your road life and achieve considerable cost savings over the lifecycle of your road.

Steve Guy – *city streets maintenance manager*, Christchurch City Council



3.30pm PRIZE DRAWS, CONFERENCE WRAP-UP AND CLOSE

Sarah Sinclair – MinterEllisonRuddWatts

EXHIBITION STAGE PRESENTATIONS

NEW

DAY 1 INTRODUCTION FROM THE CHAIR

10.30am **Wayne Stewart** – WSP

10.35am WHY MAJOR ROADING PROJECTS SHOULD BE PROACTIVELY MAPPING UNDERGROUND UTILITIES AT THE DESIGN AND CONCEPT PHASE

Sam Wiffen – *CEO and founder*, Reveal

11.05am PROJECT OVERVIEW AND FINANCING OPTIONS: TE UTANGANUI AND THE MANAWATU REGIONAL FREIGHT RING ROAD

Palmerston North City Council is leading the investigation and planning for the Manawatū Regional Freight Ring Road. This significant transport infrastructure investment will move heavy transport away from the city centre and better link the freight network of Te Utanganui to the existing State Highway network.

- economic benefits of investing in freight and logistics infrastructure
- key challenges to delivering the ring road
- financing considerations including new financing models

David Murphy – *general manager strategic planning*, Palmerston North City Council

Robbie Woods – *programme director*, Te Utanganui

12.00pm AUCKLAND TRANSPORT: FUTURE INVESTMENT PROGRAMME AND PARTNERING WITH INDUSTRY

Auckland Transport is seeking to partner with industry to deliver roading renewals and new capital projects 'better, faster, cheaper'. To this end it is seeking innovative ideas around material-use and road-construction methods to reduce embodied carbon and the cost of temporary traffic management.

Murray Burt – *director infrastructure & place*, Auckland Transport



2.30pm IPAVE AND DATA REFORM, THE NEXT GENERATION OF PAVEMENT ASSESSMENT AND MANAGEMENT

Johan Cronje – *principal technology leader/state leader NSW, asset performance*, NTRO

DAY 2 INTRODUCTION FROM THE CHAIR

11.00am **Stacy Goldsworthy** – *Winstone Aggregates*

11.05am TEMPORARY TRAFFIC MANAGEMENT – NAVIGATING THE CHANGES

After more than two decades under the same guidelines, a significant shift to a risk-based approach is taking place with a focus on smarter planning of road works to enable the right-sizing of having just enough TTM for the job. This should see greater efficiencies for the sector and NZTA is actively making this change. So the question is, when and how do we change? How does a council make this happen within its jurisdiction and how does this line up with a contractor's change management process – it must be a joined up approach for us to truly succeed.

- how some of the recent trials have performed eg the Manawatu
- how do we make TTM commercially viable?
- road closures vs extended lane closures and TTM

Panelists: **Dave Rendall** – Fulton Hogan, **Wayne Clarke** – Chevron Traffic Services, **Simon Hodges** – Christchurch City Council

Facilitator: **Darren Wu** – *client director | technical director – transport advisory*, Beca



THANK YOU TO OUR SPONSORS, EXHIBITORS AND SUPPORTING ORGANISATIONS SIGNED TO-DATE

Gold sponsor



Sponsors



Exhibitors



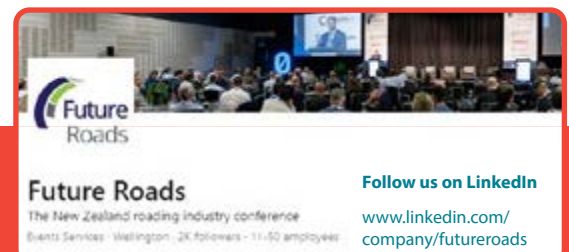
Supporting organisations



EVENT HIGHLIGHTS

Future Roads will be the highlight of the roading sector calendar, featuring:

- panel discussions boasting chief executives and government leaders
- updates on the latest roading projects
- local and international case studies
- expert speakers presenting within the New Zealand context
- interactive exhibition
- training and education opportunities
- networking
- industry dinner



**REGISTER AT
WWW.FUTUREROADS.CO.NZ**

BOOK NOW
20-21 NOV
HAMILTON



| REGISTRATION TYPE | DATES | PRICE* |
|--|-----------|--------|
| Earlybird in-person delegate (ends 5pm, 25 Sept 2024) | 20-21 Nov | \$1750 |
| Full in-person delegate (after 25 Sept 2024) | 20-21 Nov | \$1950 |
| Full in-person delegate – local government | 20-21 Nov | \$1550 |
| Dinner single ticket | 20 Nov | \$185 |
| Dinner table for 10 | 20 Nov | \$1850 |

**Prices above are exclusive of GST*



 New Zealand roading industry
Rising Star Award

The New Zealand roading industry Rising Star Award is for the standout person aged under 40 in the New Zealand roading sector, defined by their achievements during their career to-date. It is awarded annually.

Finalists announced: Wednesday 11 September

Winner announced: Wednesday 20 November (Future Roads conference dinner)



EXHIBITION

Future Roads will feature an indoor exhibition catering for large and/or heavy equipment, traditional booths, expo presentations, and other interactive delegate experiences. Key organisations and suppliers will be present, showcasing products, information, services, and technology.



THE VENUE

Claudelands is an award-winning conference, meeting, function, exhibition and events venue in Hamilton, New Zealand.

It is located at the corner of Brooklyn Road and Heaphy Terrace, Claudelands, Hamilton, about a 10-15 minute walk from the CBD.



CPD HOURS



SPONSORSHIP OPPORTUNITIES

James Wardhaugh

+64 21 636 819

james.wardhaugh@freemanmedia.co.nz

The Mighty Waikato

Where magic runs deep

Proudly held in Hamilton, New Zealand

waikatoz.com

freeman.

Freeman Media Ltd
t/a Freeman

Level 4, 85 The Terrace

PO Box 24349
Wellington

www.freemanmedia.co.nz