

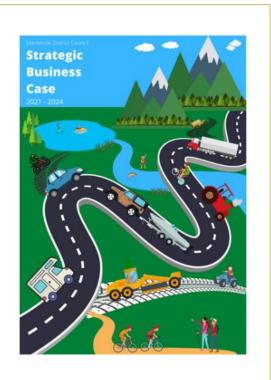
Good roads cost less. Do we have the balance right?

Scott McKenzie, Roading Manager, Mackenzie District Council and Grant Holland, Waugh Infrastructure Management

LOW VOLUME ROADS WORKSHOP 2022



ROAD ENGINEERING ASSOCIATION OF ASIA & AUSTRALASIA (NZ)



Good roads cost less. Do we have the balance right?

- The Mackenzie
- The Challenges
- -The Issues
- -The Approach
- Differing Views

LOW VOLUME ROADS WORKSHOP 2022



Welcome to the Mackenzie District



From traditional trails to international explorers



The Network

Unsealed 507 km

Average 8% Heavies (up to 25%)

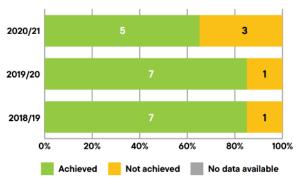
The Network and Performance





Assessment of performance against measures and targets for 2020/21

We achieved 63% of our non-financial performance standards in the roading activity.



The Network and Performance

R	

AN ANTIGERED LESINGACIUS

nzie District Council



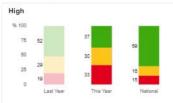
Score

AND REPORTED AND

1 . Little in the



Results by Importance

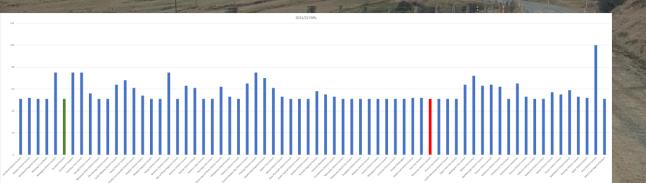


The Challenges

Climate Geology Farm tracks now roads

11

The Challenges



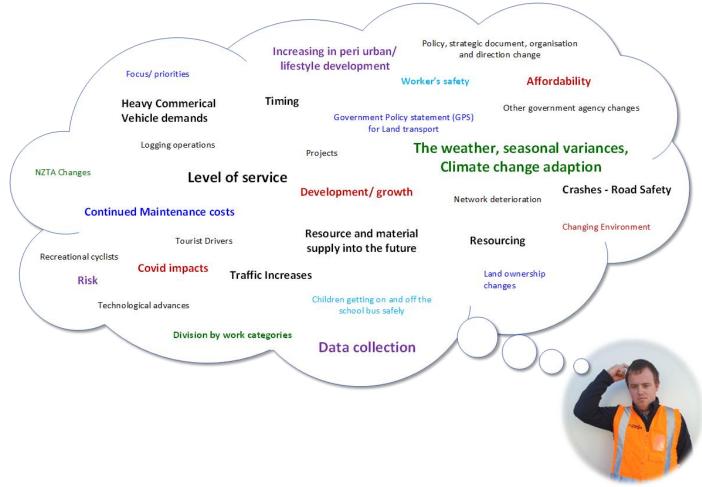
Small population baseAffordability

51% FAR(same as Auckland)354m per person(4m per person)

The traditional approach of the past

Grading and more grading
Gravel loss

Time for a re-think!



Change to Management Approach & Peer Review



What is 'Fit For Purpose?'

What 'fit for purpose' means

A guarantee means a product must be fit for any particular purpose: a customer tells you they want it for you say the product is fit for.

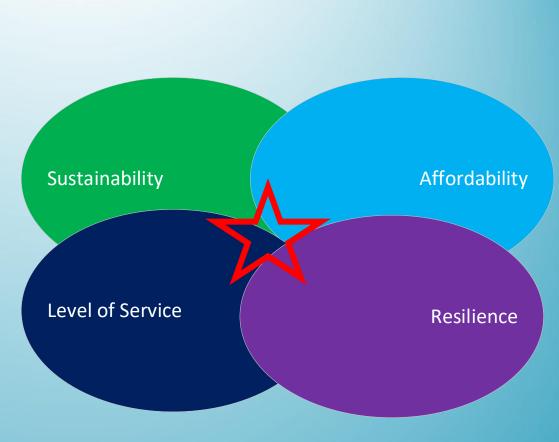
What is VALUE?

Macaulay River BEWARE

amount something is worth
importance/usefulness
specific and particular quality
principles/beliefs of the buyer

Vision for Transportation & a Sustainable Future





So, what are 'GOOD ROADS'?

Good roads have good shape to shed water Have good appropriate drainage Be built on and constructed with appropriate materials





The BALANCE: maintaining fit for purpose network now and what would that look like in the future?

The TEST – The STORM

The BALANCE: The TOYS we use to work it out

Are we on the right track? How do we know if we are doing the right thing?

Are we on the right track?

How do we know if we are doing the right thing?

Conclusion - DO GOOD ROADS COST LESS?



LOW VOLUME ROADS WORKSHOP 2021

Q and A Acknowledgements Photos

Contact Details

Dr Theuns Henning Scott, Grant, Fulton Hogan, Whitestone Roading Ltd <u>scott.mckenzie@mackenzie.govt.nz</u> grant@waugh.nz