Value of Transport and Freight

PIARC

David Shepherd

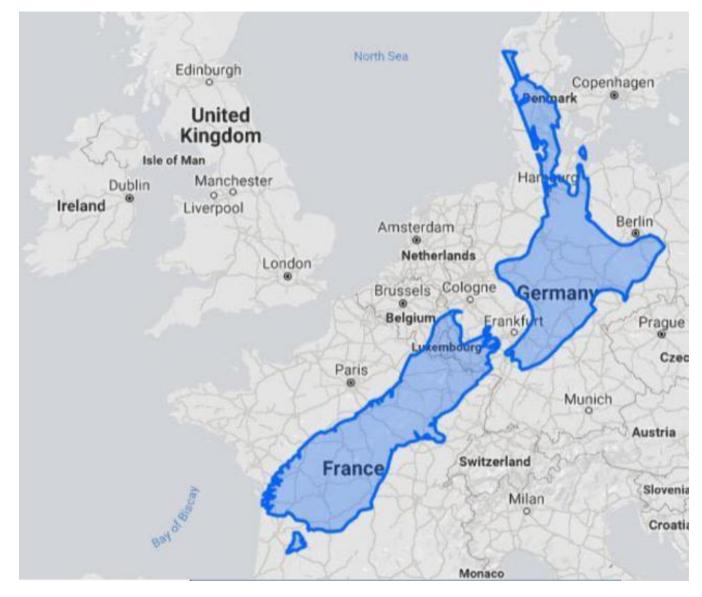


David Shepherd

National Manager Multimodal Integration – New Zealand Transport Agency Waka Kotahi



NZ context





Nobody Lives Here

Parts of New Zealand with no inhabitants living per one square kilometre

(78.21% of New Zealand's total area)

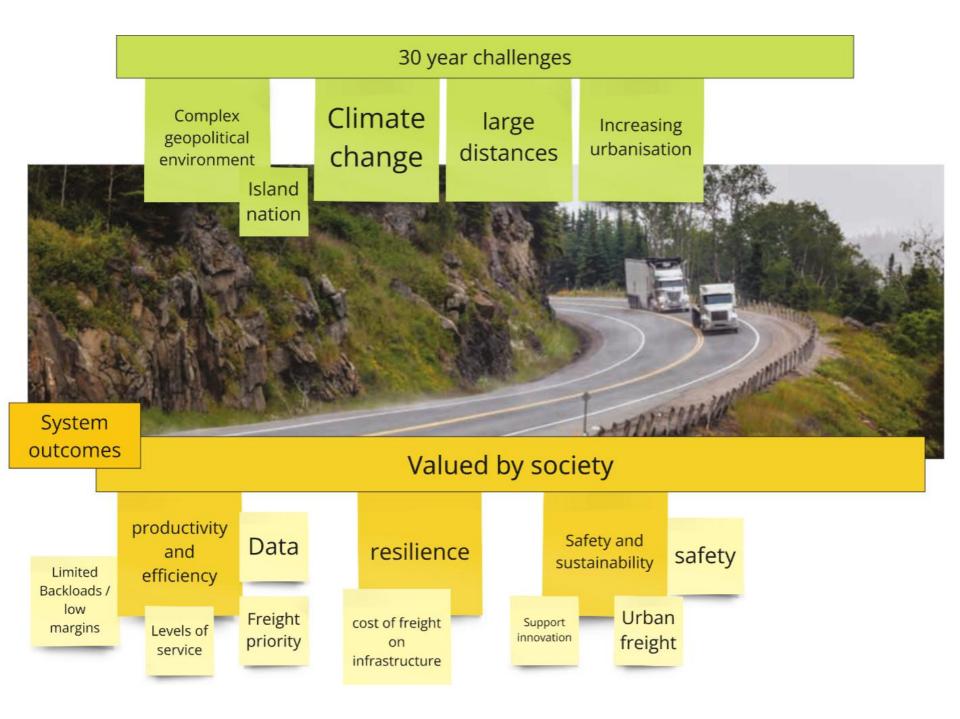
Map by Andrew Douglas-Clifford

andrewdc.co.nz





Nobody lives here



Enhancing New Zealand's economy through efficient transport systems

Objective: To establish a framework to value the contribution of transport to New Zealand's economy, focusing on the movement of people and goods. This framework will enable investment prioritisation to maximise value given available funds.

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The aim is to help enable 'national deliverables' to be assessed/prioritised for investment such as:

- Route protection for strategic freight routes,
- Priority freight lanes,
- Local roads contribution,
- Investment into Public Transport

Value of Transport - My ask of you

At the end of this presentation, please can I ask that you fill out a quick survey that asks:

A) **your opinions** on how macro-economic impacts might be better used for decision making and in public discourse; and

B) **information or guidance** on the current processes and approach used in your country.

Survey link:

https://forms.office.com/r/z11zwnBcKE

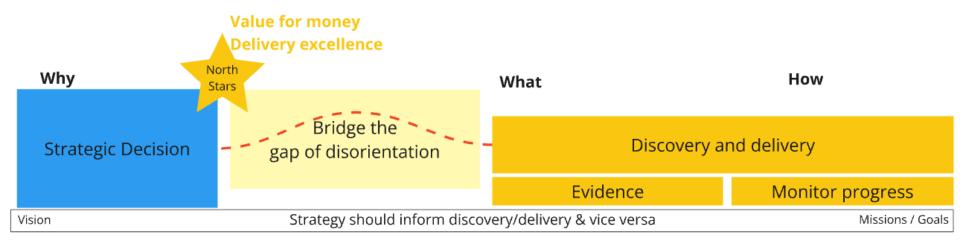
PIARC - TC 2.3 Sustainable Freight - Value of Transport survey

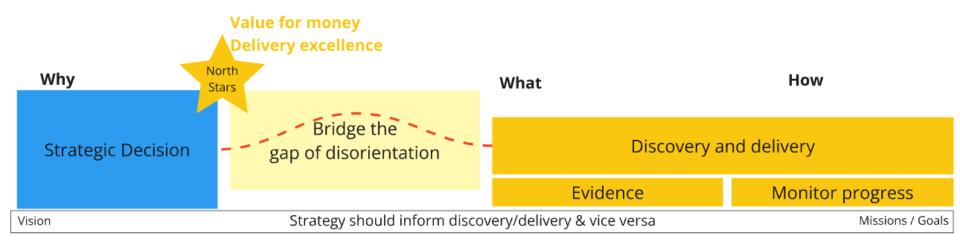
Looking to establish a framework that values the contribution of transport to the macro economy and how this will enable investment decision making to optimise national value.

Please would you fill in this form to help the PIARC TC 2.3 Sustainable Freight coordinator collate: A) **your opinions** on how macro-economic impacts might be better used for decision making and in public discourse; and B) **information or guidance** on the current processes and approach used in your country.

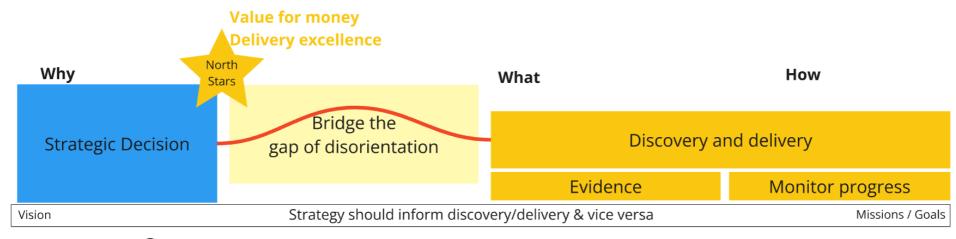
1. Your name:

Enter your answer



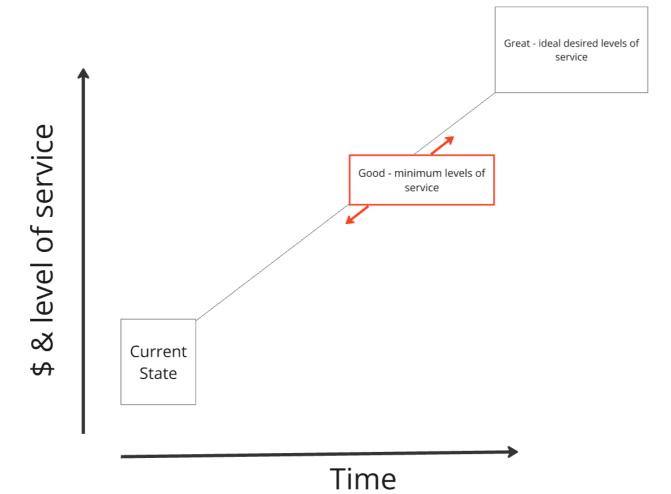








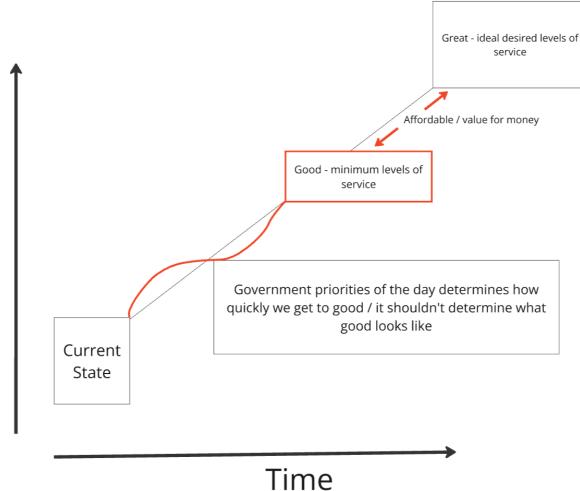
What value does the current state deliver and what is the benefit/cost to achieve the minimum level of service that NZ Transport Agency is prepared to invest in



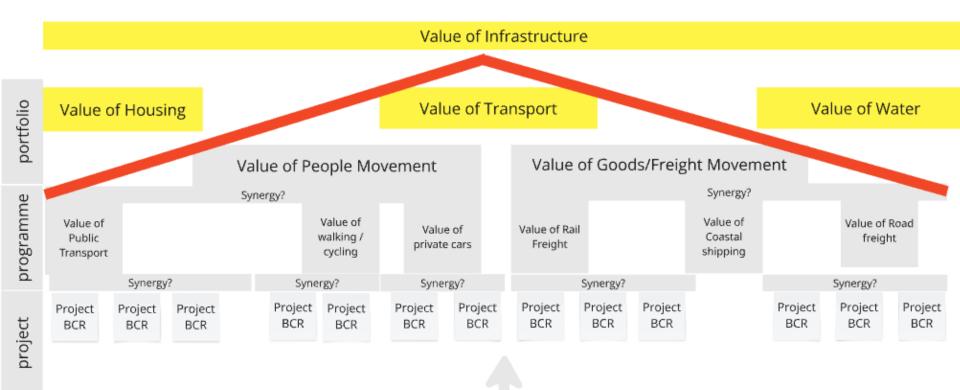
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Enhancing New Zealand's economy through efficient transport systems

\$ & level of service

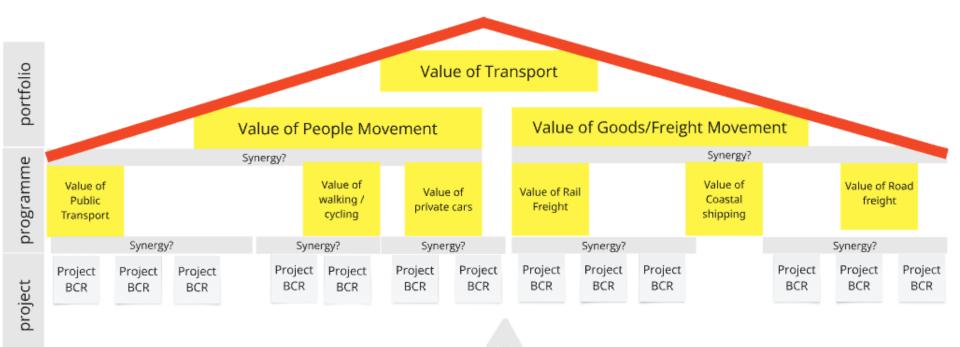


Value of Transport built on MCBM



Monetised Costs & Benefits Manual

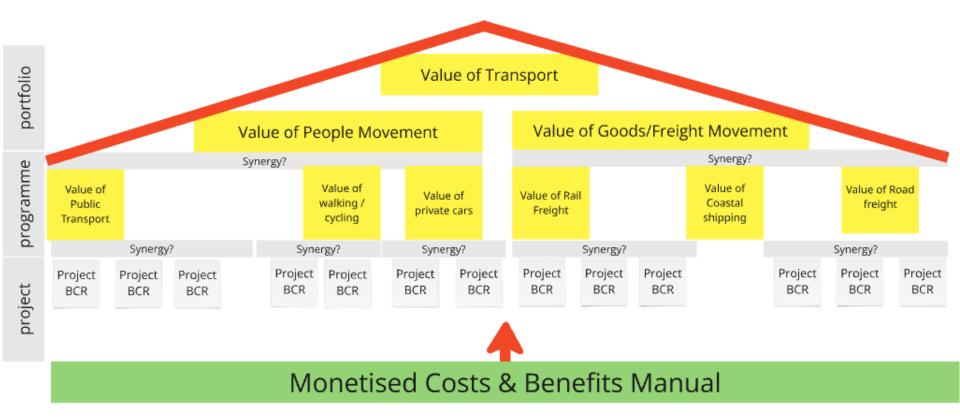
Value of Transport built on MCBM

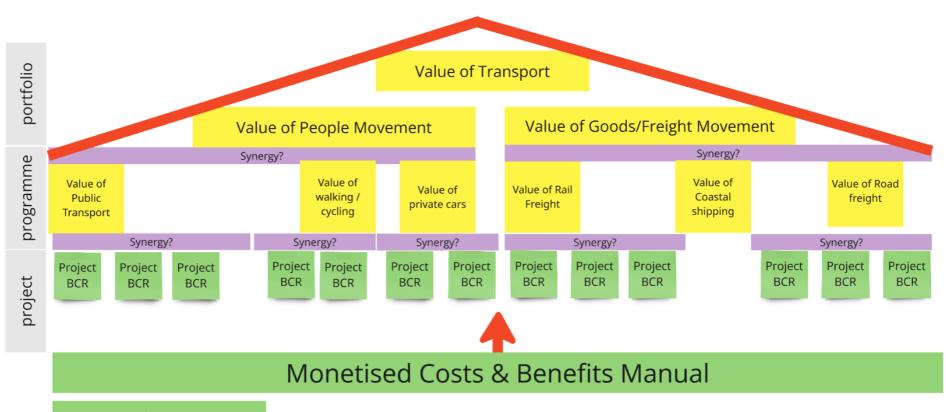


Monetised Costs & Benefits Manual

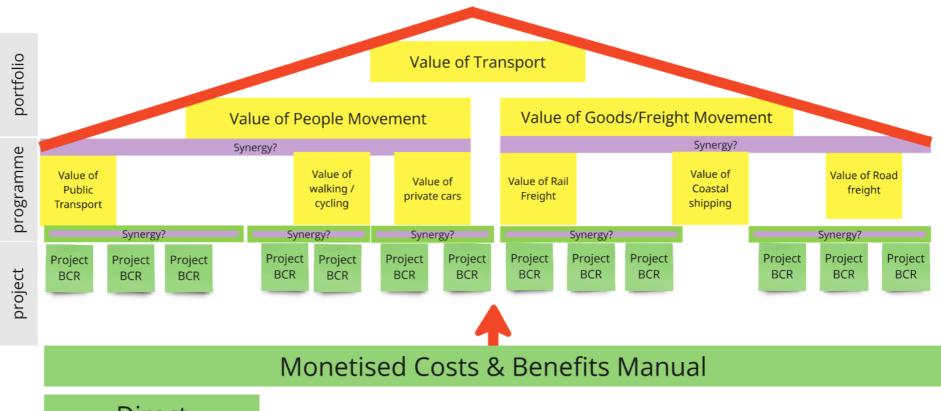
Value of Transport built on MCBM

Monetised benefits and costs manual | NZ Transport Agency Waka Kotahi

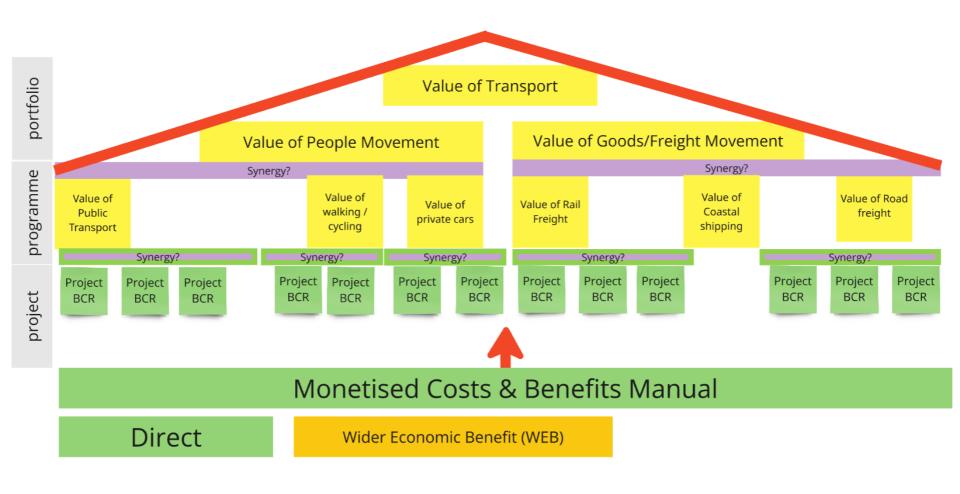




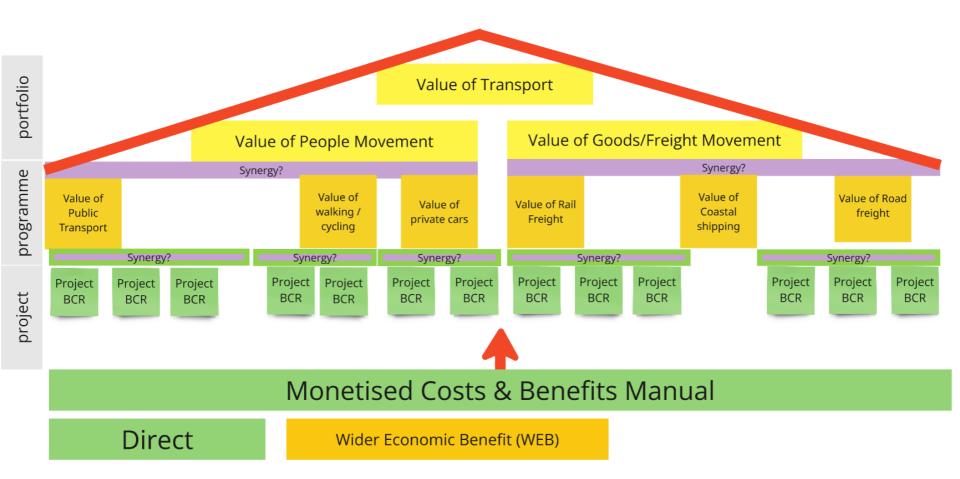
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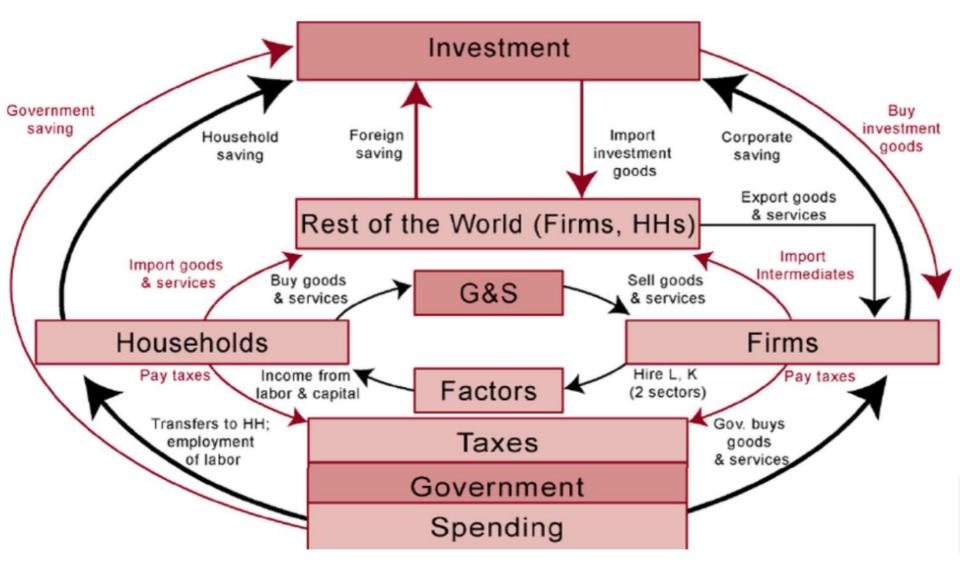
Australia Value of Rail report

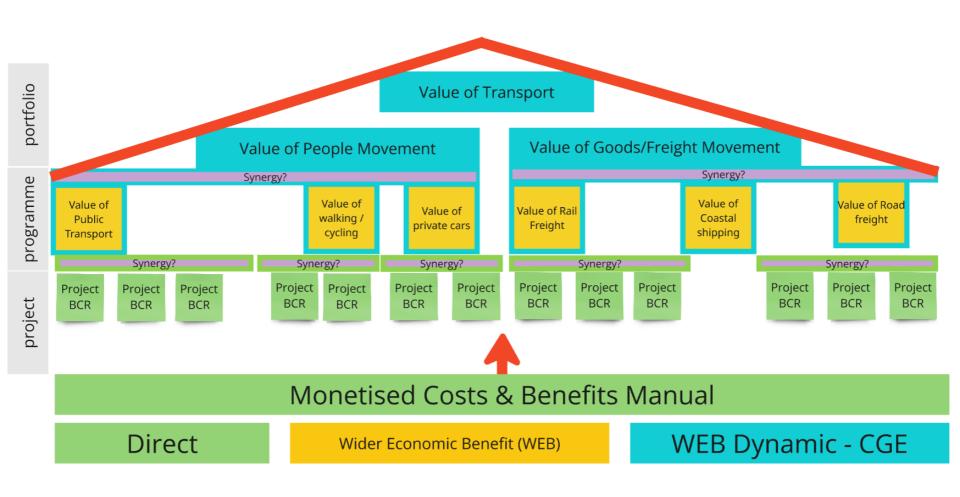
https://ara.net.au/wp-content/uploads/REPORT-ValueofRail2020-1.pdf

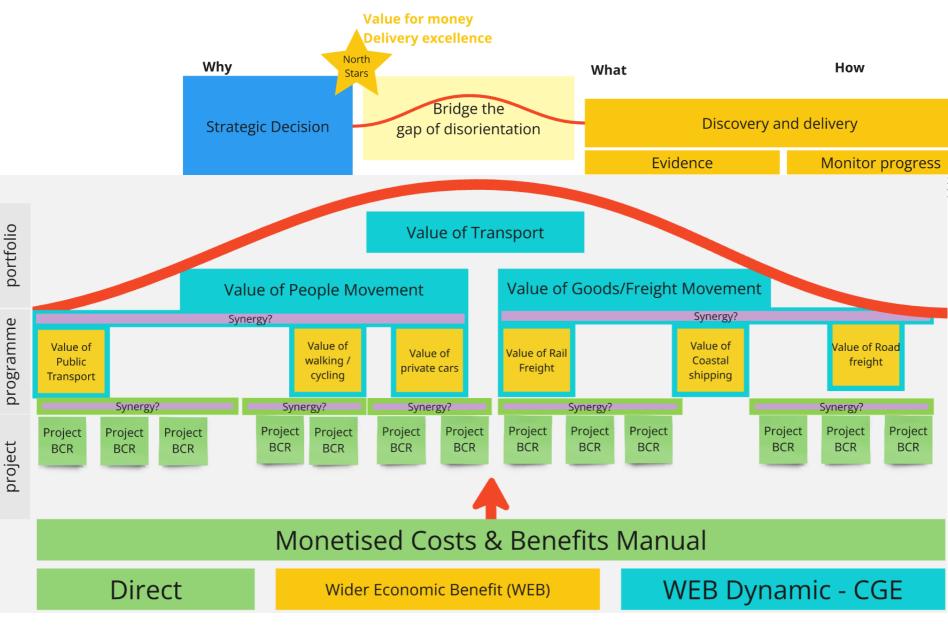
	Wages	Gross Operating Surplus	GDP	Employment
Direct	\$8.4 billion	\$6.8 billion	\$15.1 billion	71,442 FTE
Indirect contribution	+	+	+	+
	\$7.7 billion	\$6.9 billion	\$14.7 billion	93,979 FTE
		+		-
Total	\$16.1 billion	\$13.7 billion	\$29.8 billion	165,420 FTE

Source: Deloitte Access Economics IO models based on ABS cat. 5209.0.55.001

CGE – Computable General Equilibrium









PIARC

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Survey Link: https://forms.office.com/r/z11zwnBcKE



References: NZ Value of Rail

2016

https://www.kiwirail.co.nz/assets/Uploads/documents/70bd710 37f/The-Value-of-the-Rail-in-New-Zealand.pdf

2021

https://www.transport.govt.nz/assets/Uploads/Report/EY-Report-Externality-value-of-rail-2020.pdf

2024

https://ara.net.au/wpcontent/uploads/ARA_Benefit_of_Rail_New_Zealand_REPORT_Aug ust_2024.pdf

Other referenced documents:

https://www.nzta.govt.nz/resources/monetised-benefits-and-costs-manual https://www.transport.govt.nz/assets/Uploads/Report/TheExternalityValueOf

<u>CoastalShipping.pdf</u>

Australian Value of Rail

https://ara.net.au/wp-content/uploads/REPORT-ValueofRail2020-1.pdf

TREDIS

https://tredis.com/products/tredis-6/how-tredis-works

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Unlike "black box" methods, each of the key elements of TREDIS is well-defined and clearly documented, using techniques backed by peer-reviewed publications and approved by public agencies

