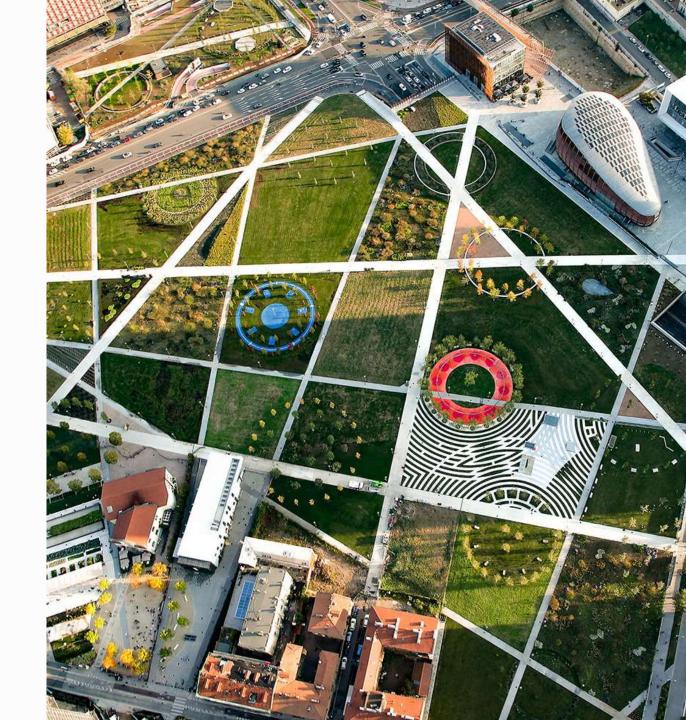
New innovations: GHG Investment Tool

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Agenda

Background – Sustainable Finance How we developed the tool Results How to tool can be used Next steps in research









IN PARTNERSHIP WITH ITALY

Sustainable Finance.

Early investment planning

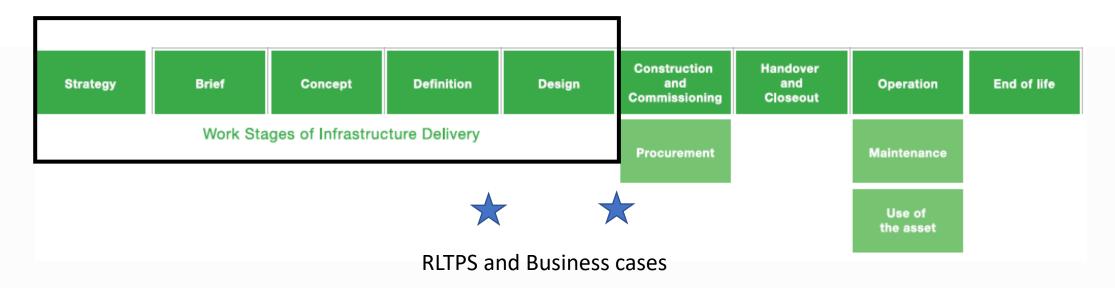
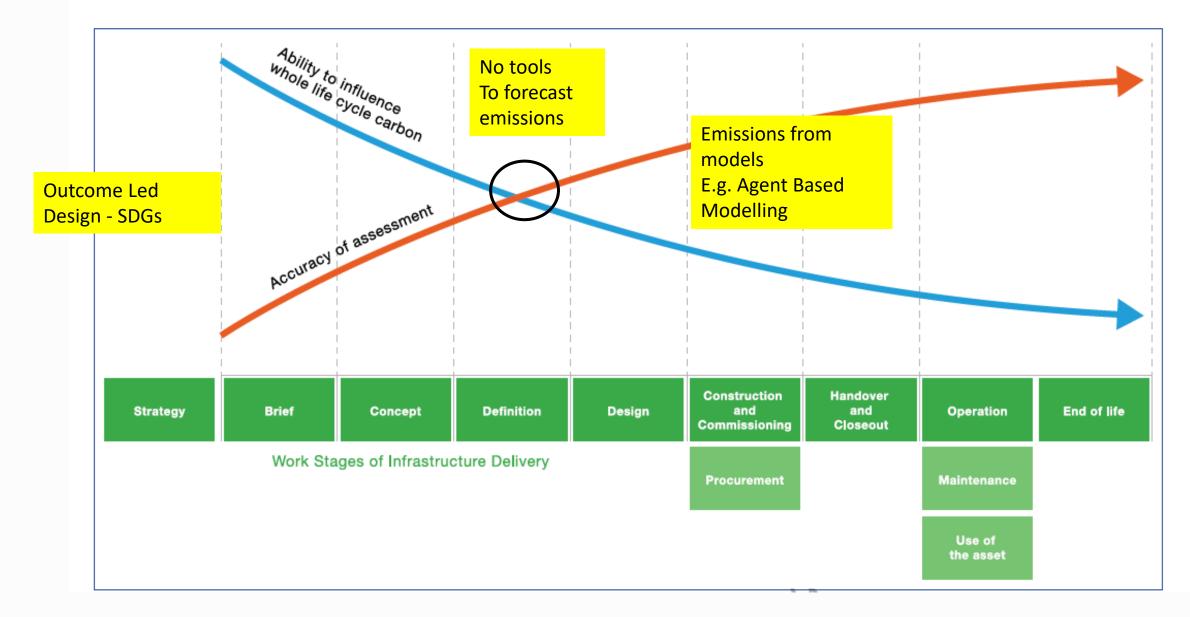


Figure 4 – Conceptual diagram to showing ability to influence carbon reduction across the different work stages of infrastructure delivery



GHG Investment Tool

A digital investment tool that helps governments and business case owners make investment decisions during the **early planning stages** - by providing evidence for **potential GHG emission reduction** of transport projects on a portfolio level e.g. RLTPs, programme business cases

GHG Investment Tool

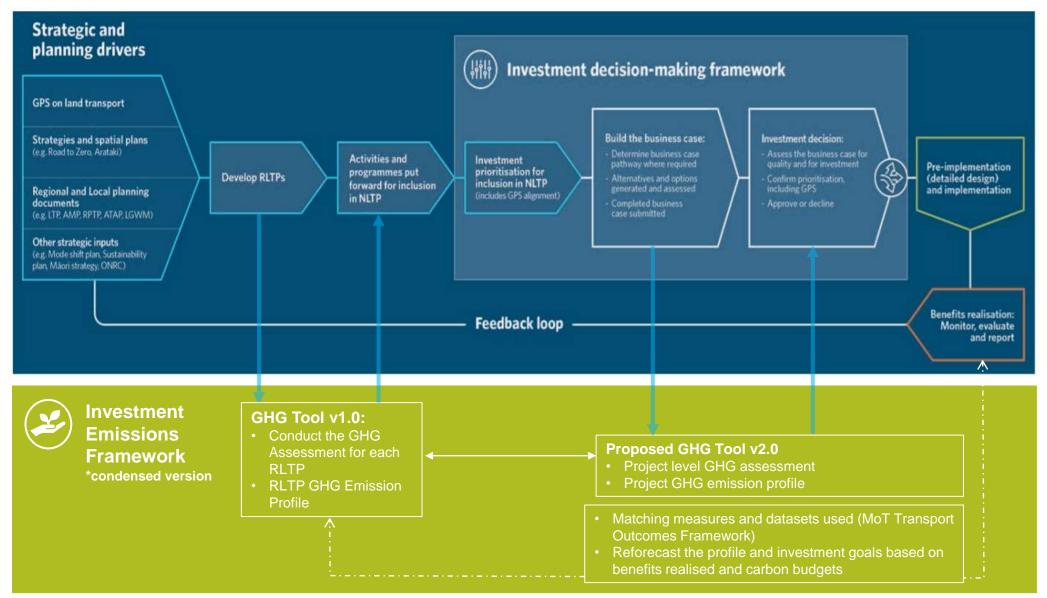
a **rapid** and **consistent** approach to evaluating the impact of transport portfolios (RLTP's) on **GHG emissions**.







Integrating the Investment Emission Framework, the Transport Planning and investment system



See Appendix D for the comprehensive IE Framework

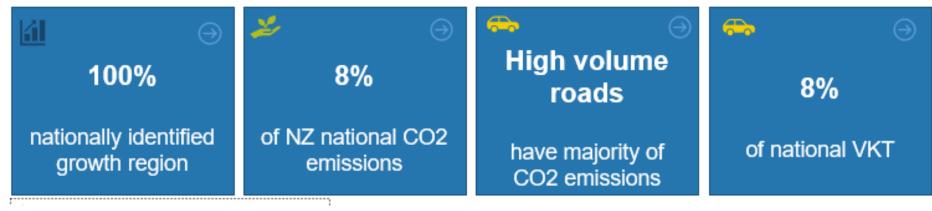
Datasets

Land use zoning GHG emissions Transport project types Potential emission impact by project type Scale Location Population density Opening year Mode

Calculator/Machine learning

Digital GHG Investment dashboard





What we can answer so far:

- How does each region contribute to the national goals of emission reduction?
- Which kind of projects will reduce emissions? And by what level?
- What is the emission benefits realisation profile for a programme?

Next....

- What is the target GHG regional rating for an RLTP based on its current emission levels?
- How much do we need to invest in each region to reach net zero tail pipe emissions

How the tool can be used:

- 1. This tool can be used in RCA's during the RLTP development stage to inform and test different programme options .
- 2. Benchmark and compare regional RLTPs

Next stages:

- Guidebook- NLTP Work category emission reduction. This would be especially useful for RLTP's in councils.
- 2. GHG Investment tool methodology applied through Agency Based Modelling.

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Thank you

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