





Building a net-zero economy

The New Zealand Infrastructure Strategy Rautaki Hanganga o Aotearoa 2022 – 2052

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Te Waihanga The NZ Infrastructure Commission













Attractive and inclusive cities

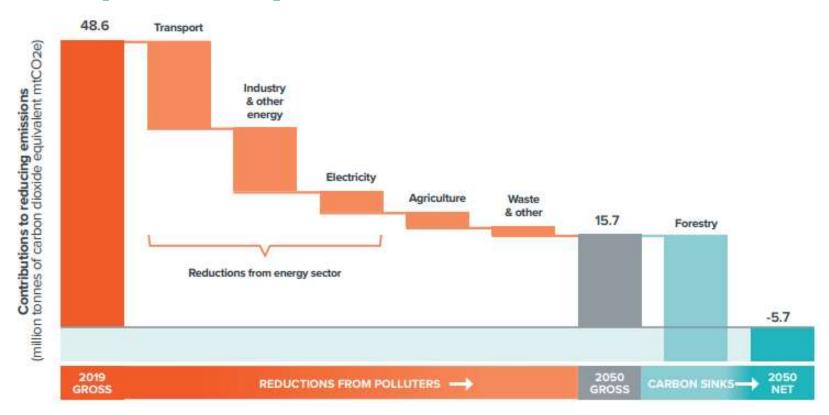


A circular economy



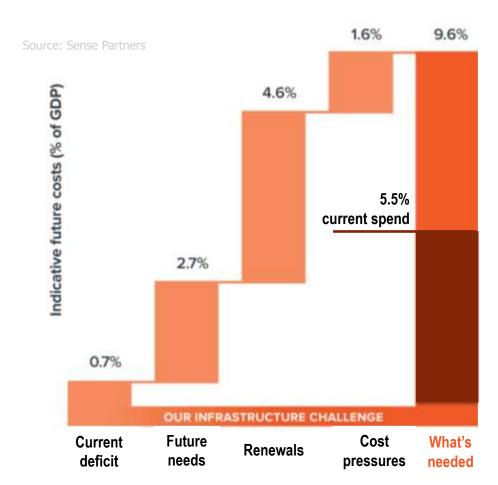
stresses

Transport is key to emissions reductions



Climate Commission demonstration path

The infrastructure challenge



We would need to double spending to build our way out of our infrastructure challenges





Better decision making



Improve funding and financing



An enabling planning and consenting framework

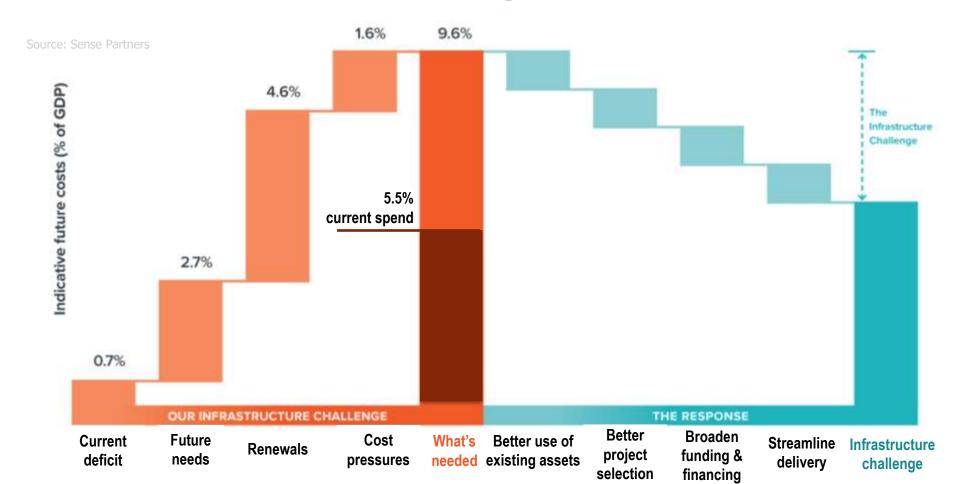


Accelerate technology use



Build workforce capability and capacity

The infrastructure challenge



What can transport asset managers do to help?

Effective planning



Good asset management optimises our investments

Streamline delivery



By incorporating future needs into renewals

Best use of existing system



Reuse existing infrastructure rather than building new

Reduce emissions



By using a whole of life approach

At the heart of good decision making is good asset management



Lower Cost





Streamline delivery: Cambridge MA

ORDINANCE NO. 1406

FINAL PUBLICATION NO. 3490. FIRST PUBLICATION IN THE CHRONICLE ON

CITY OF CAMBRIDGE

In the Year Two Thousand and Nineteen

AN ORDINANCE

In amendment to an Ordinance entitled "The Municipal Code of the C

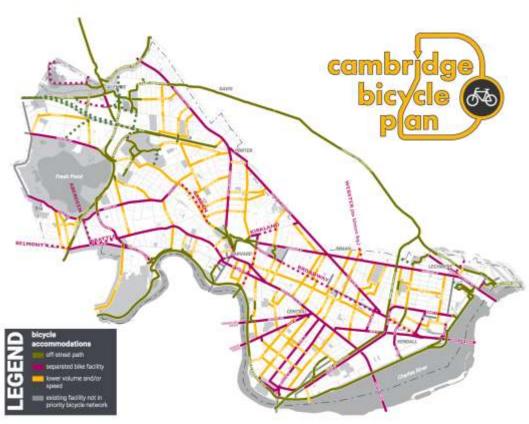
That the Municipal Code of the City of Cambridge be amended by adding in Titl "Streets, Sidewalks and Public Places" a new Chapter 12.22 entitled "Cycling Sa reads as follows:

Chapter 12.22 Cycling Safety Ordinance

Section 12.22.010 Short Title

This Chapter may be cited as the "Cycling Safety Ordinance" of the City of Cam

Cycle safety ordinance makes it a requirement to build bike lanes during renewals.



Streamline delivery: Cambridge MA

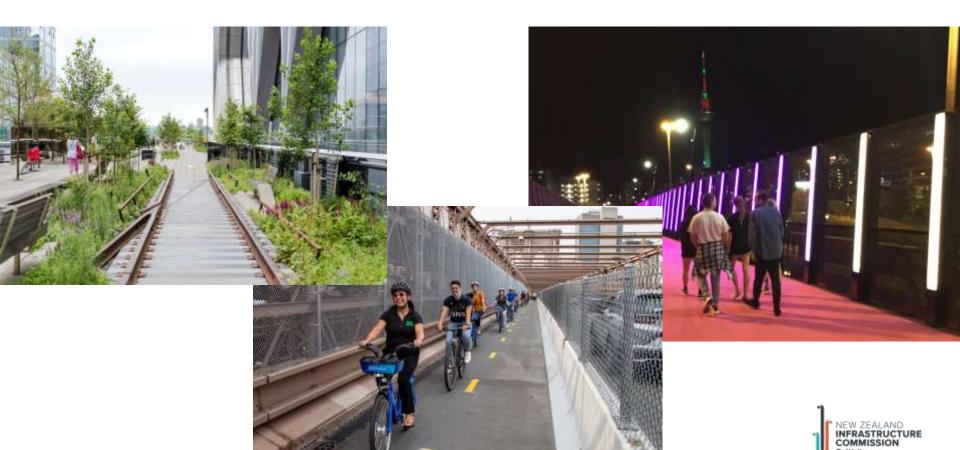




Waka Kotahi Carbon Baselines Project

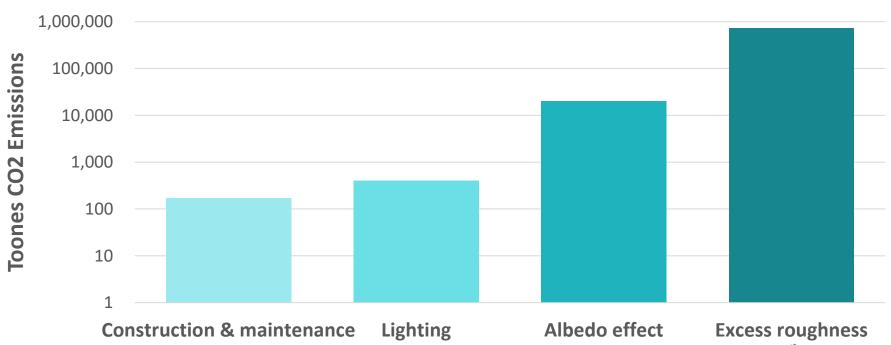






Whole of life approach to emissions

50-year emissions – 1 km of highway in Norway

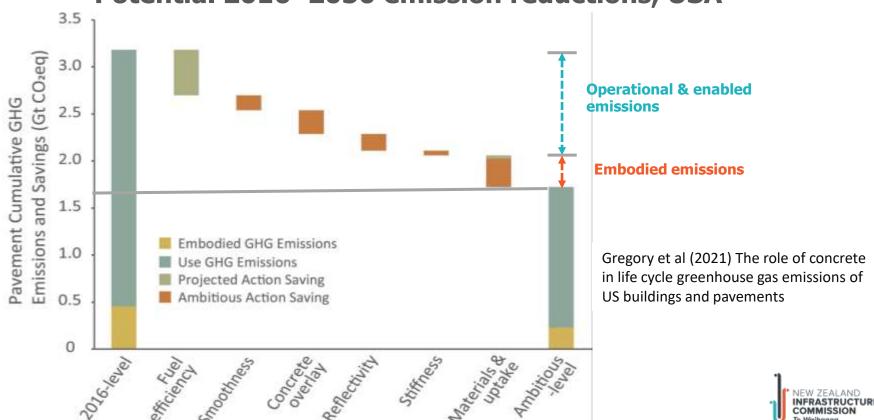


Barbieri et al (2021) Assessment of carbon dioxide emissions during production, construction and use stages of asphalt pavements



Whole of life approach to emissions

Potential 2016–2050 emission reductions, USA



Summing it all up

We face historic challenges — an infrastructure deficit and a need to meet deep carbon reduction goals.

Asset managers play a key role in addressing these challenges.

Te Waihanga welcomes feedback on the strategic barriers to achieving these outcomes.



