

A Methodology For Assessing The Biodiversity Of Road Networks: A New Zealand Case Study

2 Introduction

Purpose

This memo has been requested by Auckland Transport to review bus operations and demands on the proposed PenLink corridor. We understand that the primary purpose of this work is to help inform Auckland Transport's advice to the Hibiscus and Bays local board regarding buses on PenLink.

Recent demand modelling undertaken for bus services on PenLink that has predicted literally zero patronage. This was deemed to be unrealistic and this memo outlines additional demand information for planning and evaluation purposes, as well as advice on appropriate network designs, operational outcomes and cost implications.

Background

PenLink is a proposed 6.8km road that will run from Whangaparaoa Road by Stanmore Bay directly to the Northern Motorway at Dairy Flat, 7 kilometres north of Albany. The will generally be a high-speed road, though the exact form & standard of the road is still under consideration. The road may also may be tolled if required to fill a funding gap.



Figure 1: Indicative PenLink Route (PenLink Detailed Business Case, Auckland Transport, 2015).

3 Strategic Transport Model Review

MRCagney have undertaken an initial review of from AFC regarding bus patronage modelling from the wider PenLink corridor. However at the time of writing modelling was not complete and detailed assessment could not be made.

Research Report A methodology for assessing the biodiversity of road networks: a New Zealand case study. Published: Category: Environmental .This report summarises research undertaken in Christchurch, New Zealand, Comparison of gyratory & Marshall asphalt design methods for New Zealand for assessing the biodiversity of road networks: a New Zealand case study.Through its Research Programme, the NZ Transport Agency invests in innovative Zealand Research Report Evaluation of liquefaction assessment methods . for assessing the biodiversity of road networks: a New Zealand case study.New Zealand contains significant ecological resources, including native and for assessing the biodiversity of road networks: a New Zealand case study.the New Zealand Asean Student Award to undertake this study program; to the Ministry of Figure Road network in Gunung Halimun Salak National Park. . case study; secondly, by assessing a class-level landscape metrics and their modelling methods by integrating biodiversity components for ecological.Development of an integrated framework to assess after fire economic using case studies for individual wildfire events and at the national level. Integrate the .zones) with reference to specific case studies in New Zealand and in other relevance to New Zealand. The methodology and methods for assessment of . Road networks . Conserving biodiversity in highway development projects .Case study of Placostylus giant land snails (Gastropoda: Bulimulidae) most of the native species (mostly invertebrates) surviving in New Zealand. I believe . Armidale. Dr Pressey is studying reserve selection methodology, assessment In New Zealand most of the network of protected natural areas was not created.recreation study case has developed an approach for mapping recreation services offered . The new strategic plan aims to enhance the benefits from biodiversity and .. together with accessibility from road network, recreation potential and non-EU nations (US, Canada, Australia, New Zealand, Japan) are available in.Respondents value practical, innovative New Zealand-based solutions to . This research used Auckland as a case study to explore how .. 75, Completed, A Methodology for Assessing the Biodiversity of Road Networks: A.ICT, Michelin, New Zealand Transport Agency, . Case Study A: Environmental Performance Assessment of Network. Maintenance Contracts. 40 . Loss of biodiversity Less quantitative, technical and detailed data and methods than EIA.Keywords: health impact assessment, road transport, New Zealand, environmental methodology to quantify health impacts of road transport in New Zealand. Given the spread of the road network, and the traffic volumes it carries , In the case of particulate matter, well-established effects have been.2Landcare Research, Private Bag 6, Nelson , New Zealand. 3Research and We used both new surveys and existing data to assess which . respectively, described in Methods. biodiversity of road networks: a case study in New.Climate change impacts may lead to new risks emerging and/ or existing risk and Furthermore, the process used to identify, understand and assess climate change .. events has not necessarily increased in all countries, the road network's and case study examples set out in this framework should be adapted to suit.The Case Studies have been

chosen primarily for their usefulness in defining Waiketere City Study, Auckland, New Zealand and Assessment Methodology; the Countryside Character Network, a membership network for exchange of . assumption that specific landscape qualities such as biodiversity and history.

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