Assessing Travel Efficiency at a Strategic Level

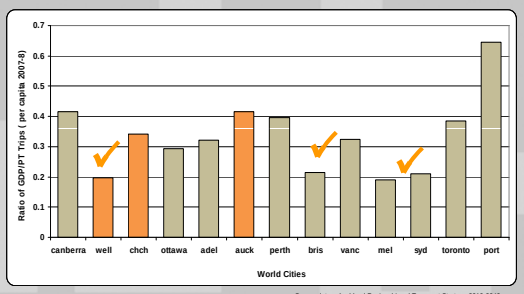
Monday 28th March 2011

Introduction

1. What is meant by Travel Efficiency
2. Link between Economic growth and travel
3. Retail Centre travel Behaviours
4. Method used to assess travel efficiency

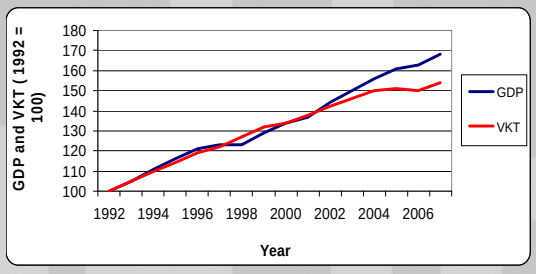
1. What is Travel Efficiency

Per Capita GDP and PT Trips – World Cities



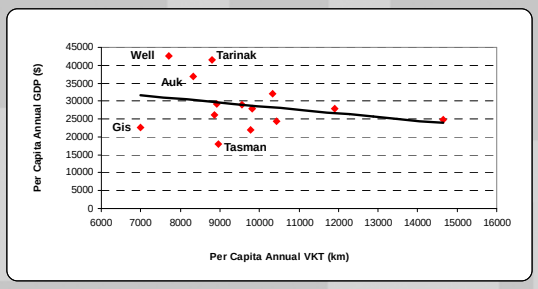
Source data : Auckland Regional Land Transport Strategy 2010-2040

GDP and VKT : NZ 1992-2007

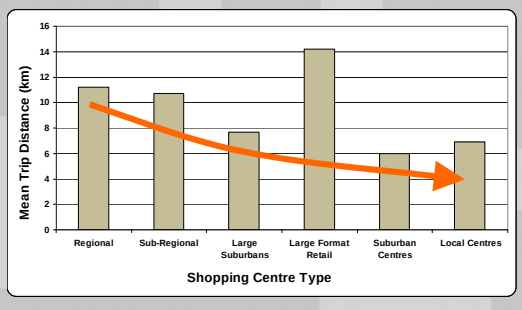


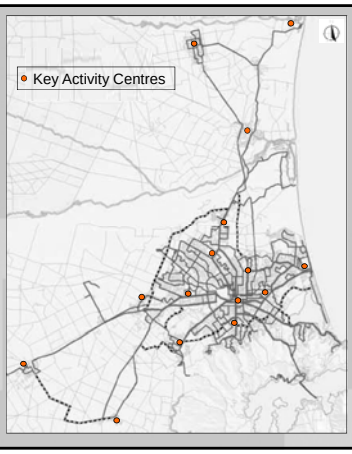
Source: mfe.govt.nz

Per Capita GDP and VKT - NZ Regions



Retail Centre Travel





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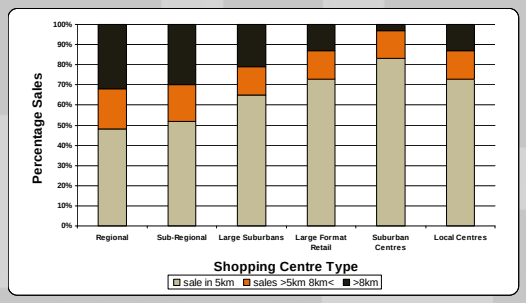
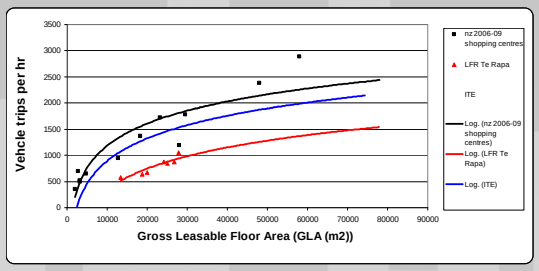


Retail Centre PM Peak Trip Generation Rates

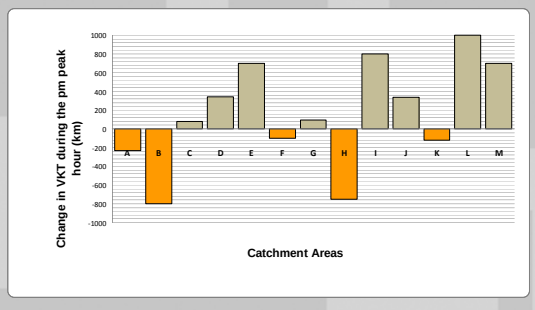


Model Inputs

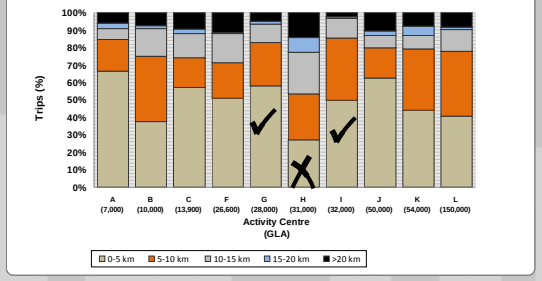
- Existing Trade patterns
- Projected Trade Draw
- Trip Generation Data
- Trip Type proportion
- Traffic assignment using GIS software

Source: www.chasecartoons.com

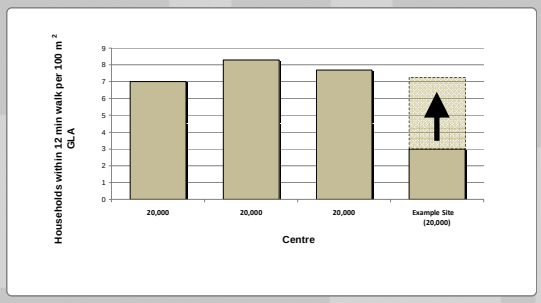
Change in VKT



Comparative Analysis



Non Car travel efficiency



Summary

- Travel Efficiency – central theme of policy
- GDP/ transport measure policy indicator
- Economic Growth can occur without higher car dependence
- Range of modes can be assessed
- Informs resource management and land use decisions at an early stage
- Better informed land use decisions will assist in achieving strategic transport targets.