Inclusive access matters – measure it

- What is accessibility?
- Why does it matter?
- How do we measure it?
- How would measuring it change our decisions?

Tim Hughes



Inclusive access - the top priority

What is it?

Click to edit subtitle

- The purpose of transport is to provide access movement is for a reason.
- Access is defined as Ease of access to social and economic opportunities for people
- Could also include:
 - access to resource and markets for business.
 - Catchments for location of services
- Top government transport priority
- GPS requires us to improve accessibility and to measure accessibility outcomes.
- I will share some early easy steps so far
- Opportunities to do much more.

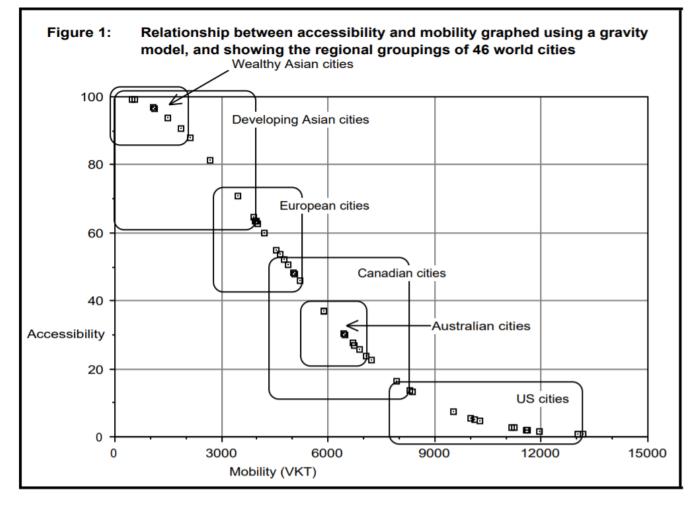


Inclusive access - the top priority

What is it? Click to edit subtitle

- The purpose of transport is to provide access movement is for a reason.
- We are very good at measuring and modelling traffic movement but very poor at measuring movement by active modes.
- Our process are very poor at measuring transport equity.
- We don't measure the opportunities missed due to transport difficulties.
- Or the trip you hope you will never have to make.
- Land use change feedback





Source: William Ross; Accessibility and Mobility: the Yin and Yan of planning

New Zealand Government

We need something better than opposite of VKT

Need for a better indicator for accessibility outcomes from transport and land use changes.

- Existing methods used in economic analysis are based on changes in movement and assume that time savings improve access especially by increasing the number of opportunities.
- But motor vehicle time savings result in destinations shifting.
- Which reduces accessibility for every other mode
- Car accessibility may already be more than optimal.
- Care based measures do not consider equity

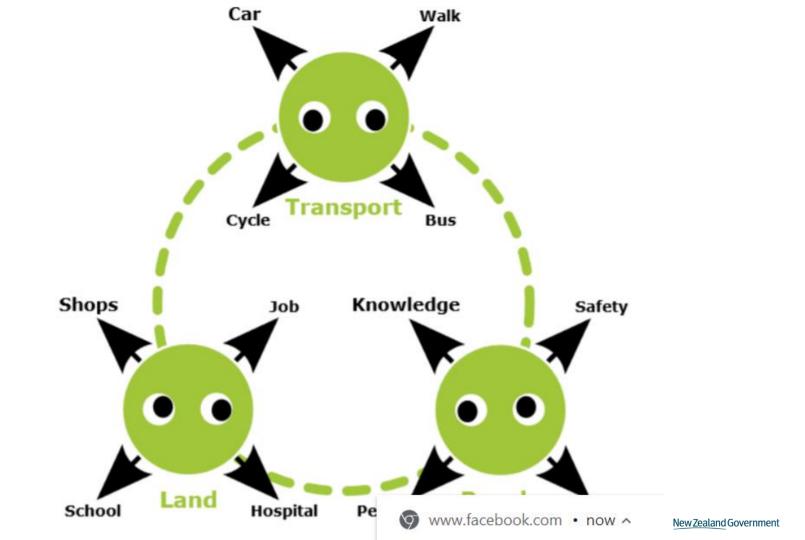


Measuring transport outcomes

What is it? Click to edit subtitle

- · Measure what you value and value what you measure
- You manage what you measure.
- "Corporate managers start off trying to manage what they want, and finish up wanting what they can measure.'
- the easy-to-measure drives out the hard, even when the latter is more important
- What gets measured gets managed so be sure you have the right measures, because the wrong ones kill.
- "Measure what you value and others will value what you measure."
- So: measure what you value then value what you measure.







Measuring transport outcomes - so far

What is it?

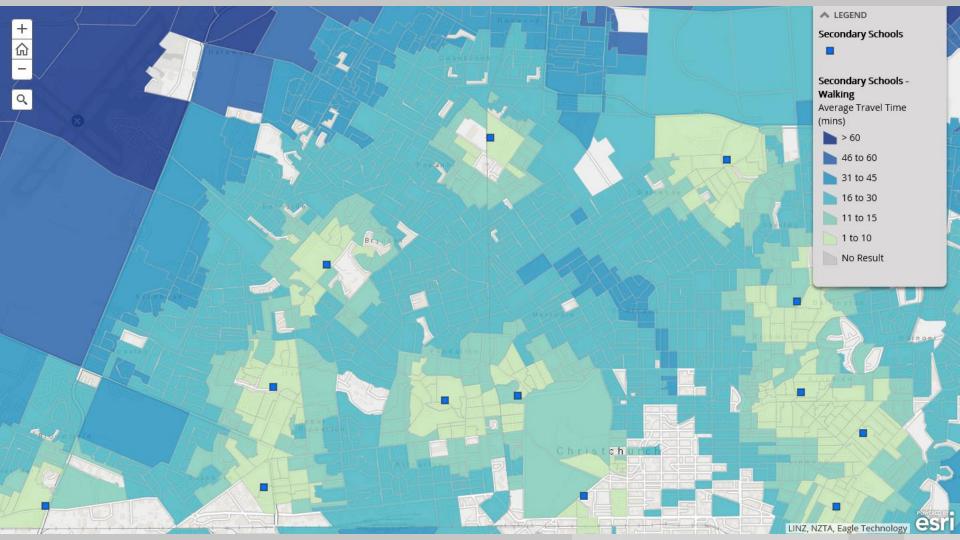
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- What indicators: depends on what you are using it for:
- Easy to understand,
- Thresholds: can you reach nearest destination within 20 minutes
- How many opportunities can you reach within 20 minutes

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- Where are the problems where for whom?
- These measures are not linear not good for assessing value of change .





Christchurch

Population:

331,767

	Within 15 Minutes (%)	Within 30 Minutes (%)	Within 45 Minutes (%)	Within 60 Minutes (%)
Secondary Schools				
Bicycling	83	95	97	98
Driving	97	99	100	100
Transit	44	89	96	97
Walking	24	65	80	87
Intermediate Schools				
Bicycling	97	99	100	100
Driving	100	100	100	100
Transit	73	97	98	99
Walking	48	87	96	99
Primary Schools				
Bicycling	98	99	100	100
Driving	100	100	100	100
Transit	85	97	98	99
Walking	70	95	98	99

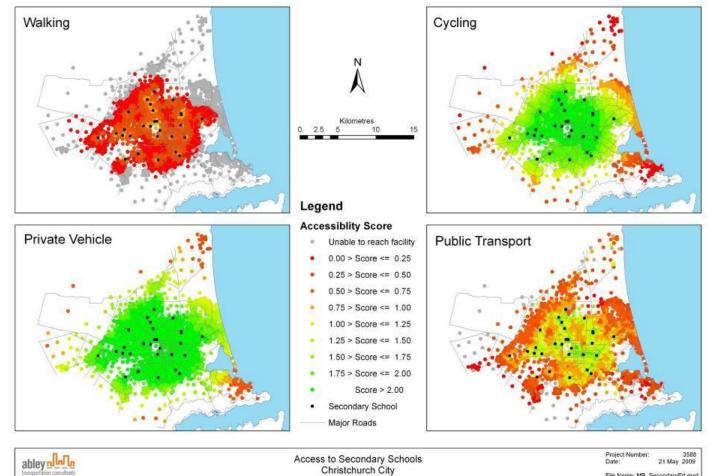
Measuring transport outcomes

What is it?

Click to edit subtitle

- In project and programme assessment
- What is the value of accessibility changes to people.
- Utility measure.





Access to Secondary Schools Christchurch City Project Number: Date: 3588 21 May 2009 File Name: MB_SecondaryEd.mxd

A utility base indicator proxy for economic evaluation

A mode comparison score

• Comparing non-car to car modes.

A potential composite score ?

- The value of each destination
- The generalised cost of getting to the nearest destination.
- The value of a choice of destination
- The value of mode choice



