

Right to the City

Applying Justice Tests to PT Investment

Outline

- Background 1.
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Note: An extended version of the paper associated with this presentation has been accepted for publication in a forthcoming edition of the journal "Transport Policy" http://ww

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Background

Cities are grappling with:

- Growing travel demands and Convert Persistent socioeconomic deprivation/inequality.

Major PT investments would ideally be efficient, i.e. their benefits exceed their costs, and equitable, i.e. benefits are distributed to favour the less well-off

Research question: How are the accessibility benefits of PT investment distributed across the population?



Background

Auckland Plan: Identifies six transformational shifts.

ntur.

- Dramatically accelerate the prospects of Auckland's children and young people.
- 2 Strongly commit to environmental action and green growth.

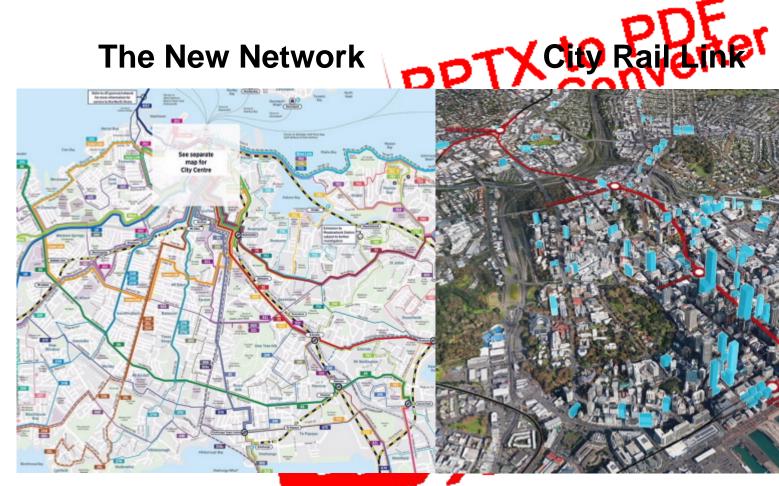
3 Move to outstanding public transport within one system.

- Radically improve the quality of urban living.
- Substantially raise living standards for all Aucklanders with a focus on those most in need.
- 6
- Significantly lift Māori social and economic wellbeing.



Background

The New Network





Sources: Auckland Transport and Auckland Council



Literature Review

Rich and diverse body of literature: to Heret

- Economics cities attract and segregate households.
- Sociology theoretical concepts of spatial justice.
- Geography methods for measuring accessibility.
- Public policy many orgs. have policies on inequality.

Includes IMF, World Bank, and OECD. NZTA

Moot point whether high-level support for addressing inequality influences transport investment priorities.



Literature Review

Åslund et al. 2009 (Journal of Foont Geog.)

- Consider impact of accessibility to jobs on long-term employment outcomes for *refugees* in Sweden.
- Being placed in a location with poor job access in 1990–1991 adversely affected employment in 1999.
- Doubling initial accessibility → 2.9% points increase in employment probability a decade later. Large effect!

Many other studies find that accessibility has a positive effect on a wide range of socioeconomic outcomes.



Literature Review

Various justice tests:

- Martens (2012) range in Carcessibility between areas with highest and lowest sectors socioeconomic status
- Lucas et al. (2015) Gini coefficient (measures the degree to which accessibility is equally distributed)

Cumulative share of people from lowest to highest incomes

cessibilitv



lighest SES

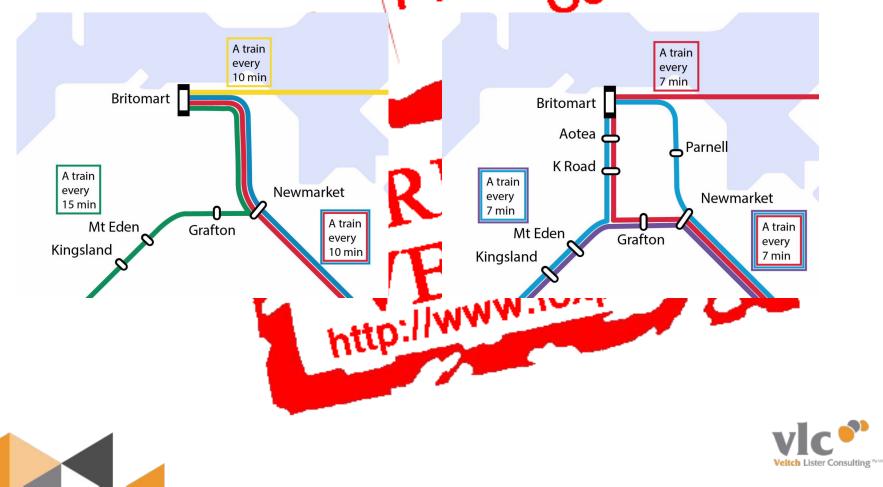
Cumula

100%



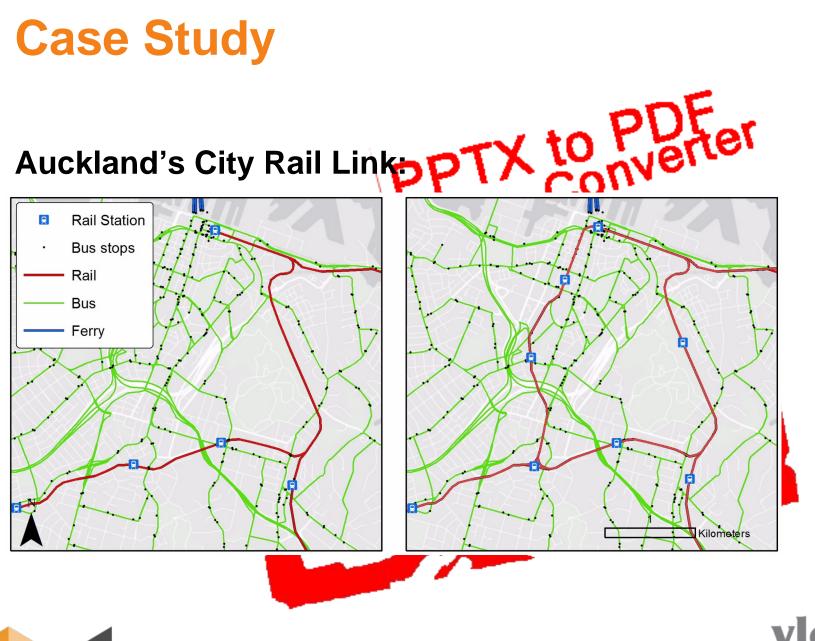
Case Study

Auckland's City Rail LinkpPTX to PDter

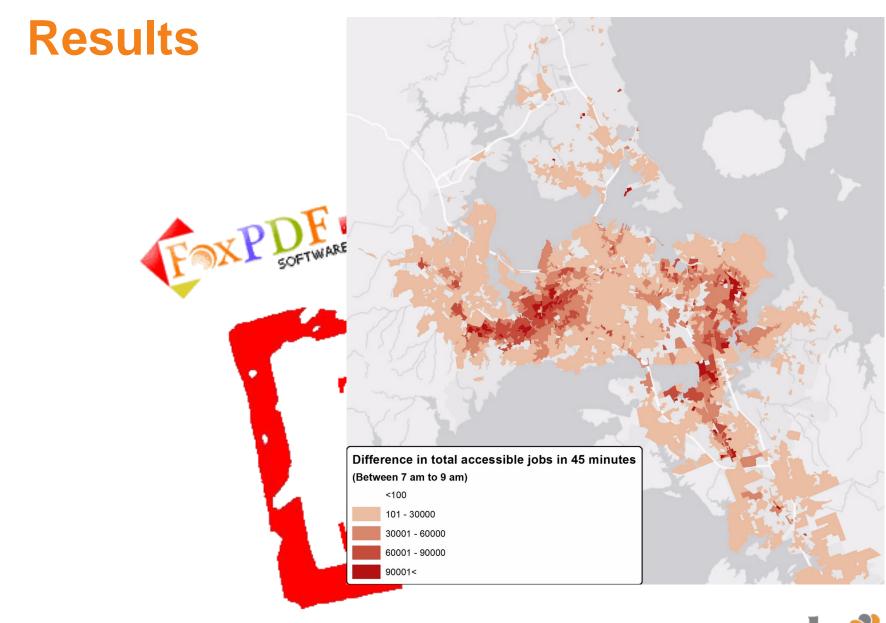


Case Study



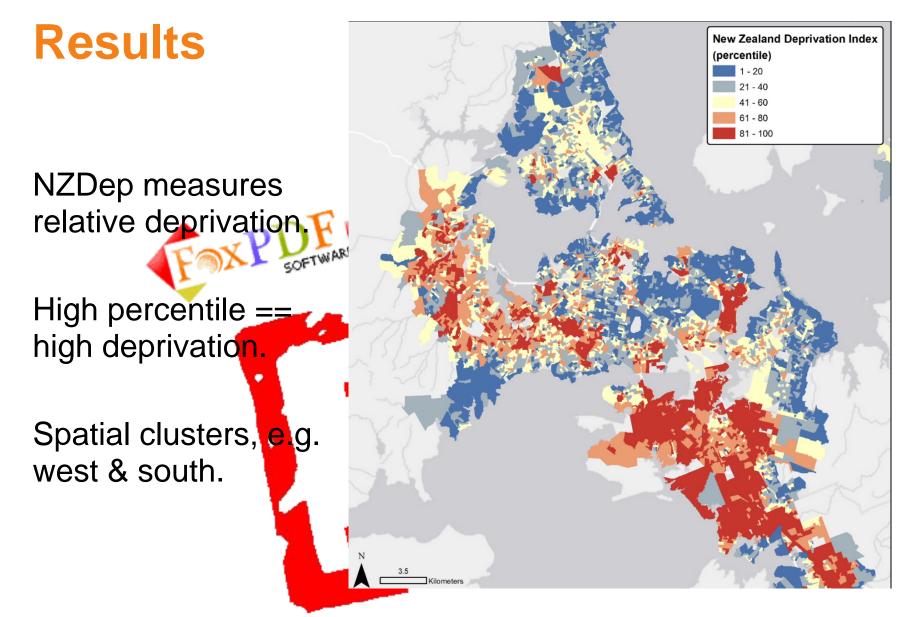








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Results

Key findings:

- PPTX to F CRL disproportionately benefits lesswell-off areas.
- Correlation coefficient robust to specification
- Other findings More stable results when using:
- Distance-decay accessibility function (smooth)
- Many spatial units, e.g. meshblocks (detail
- Tailored deprivation indicator, e.g. NZDep (nuanced) http://www.foxp



Discussion

Limitations of approach:

- DTX to LLA Measure potential rather than actual demand
- Analyse walk-up access only, not multi-modal
- Second-order land use and transport changes

ers or non-linearities. Data didn't indicate presence of

http://www.foxpdf.com



Summary

Many cities are grappling with growing travel demands and persistent socioeconomic deprivation/inequality. Major PT investments would ideally be *efficient* and *equitable*.

Q. Who benefits from transport investments?

A. Ex ante accessibility-based "justice tests"

Our contribution: Propose a simple, new "justice test" (correlation coefficient), which seems stable/reliable.



Postscript

Our paper reviews policies in U.K., Australia, and OZ:

- NZ provides least guidance on equity related issues
- Only 1 out of 400 pages in the EEM considers equity
- Discussion is extremely limited (pointless?).

Should transport investment priorities in New Zealand be informed by analysis of distributional impacts?

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Thank you and Questions?

Please send feedback to stuart.

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PPTX to PDFer

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