

# PAPER 2: TRANSPORT INDICATORS TO MEASURE HEALTH AND WELLBEING

## PAPER FOCUS:

**STUDY DESIGN:** Methods

**STUDY LOCATION:** VIC

**POPULATION:** Adults



**BUILT ENVIRONMENT FEATURES:** Transport, Social Infrastructure, Walkability, Public Transport, Public Open Space, Food, Local Employment, Housing, Crime & Safety

**HEALTH & WELLBEING OUTCOMES:** Walking (Transport & Recreation), Outdoor Recreation, Cycling, Fitness, Sitting Time, Obesity, Mental Health



## WHAT WE DID:

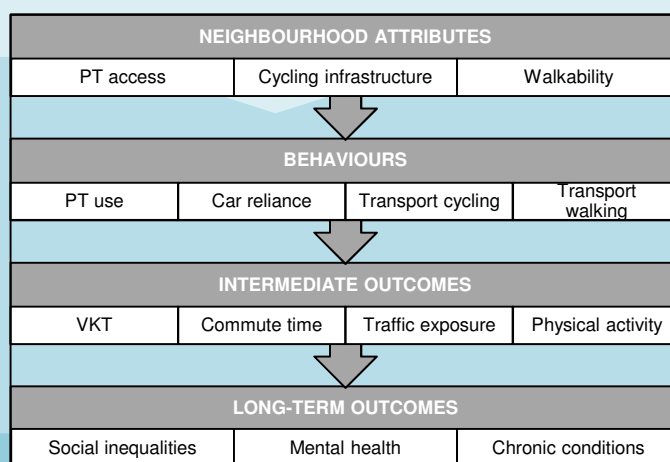
- Developed a conceptual model to map how transport impacts on health and wellbeing
- Used the conceptual model to identify policy-relevant transport-related spatial indicators that mapped to health and wellbeing
- Proposed a suite of spatial indicators that can be used to track transport policy and land use planning over time

## WHAT WE FOUND:

- 23 spatial 'neighbourhood attribute' indicators of transport
- The most developed indicators measured public transport access
- Transport indicators can be applied at the smallest census area (i.e., mesh block)
- The creation of indicators relies on using spatial data from multiple sources

## SO WHAT?

- Compact urban developments are being prioritised by transport planners and policy makers, including improving access to local employment and travel modes other than private cars
- Our causal model identifies how diverse transport and land use policies potentially impact behaviours and health and wellbeing behaviours and outcomes
- Key spatial transport indicators were identified that planners and policy-makers could use to monitor progress over time
- The model and indicators can be used to better integrate transport and health policy and planning



Key: PT = public transport; VKT = vehicle kilometres travelled

The development of policy-relevant transport indicators to monitor health behaviours and outcomes | Hannah Badland, Suzanne Mavoa, Karen Villanueva, Rebecca Roberts, Melanie Davern, Billie Giles-Corti | *Journal of Transport & Health*, 2015. 2: 103-110. Contact Details: [hannah.badland@unimelb.edu.au](mailto:hannah.badland@unimelb.edu.au) | CRE Website: <http://mccaughey.unimelb.edu.au/programs/cre>