Reflections on our learning: active travel, transport and inequalities

Jill Muirie
Glasgow Centre for Population Health



Active travel definition

- Active travel refers to walking, cycling or using some other form of physical activity for all or part of a journey instead of using motorised transport.
- The term covers all types of journeys, including journeys to work or places of study, to shops, to services and for leisure

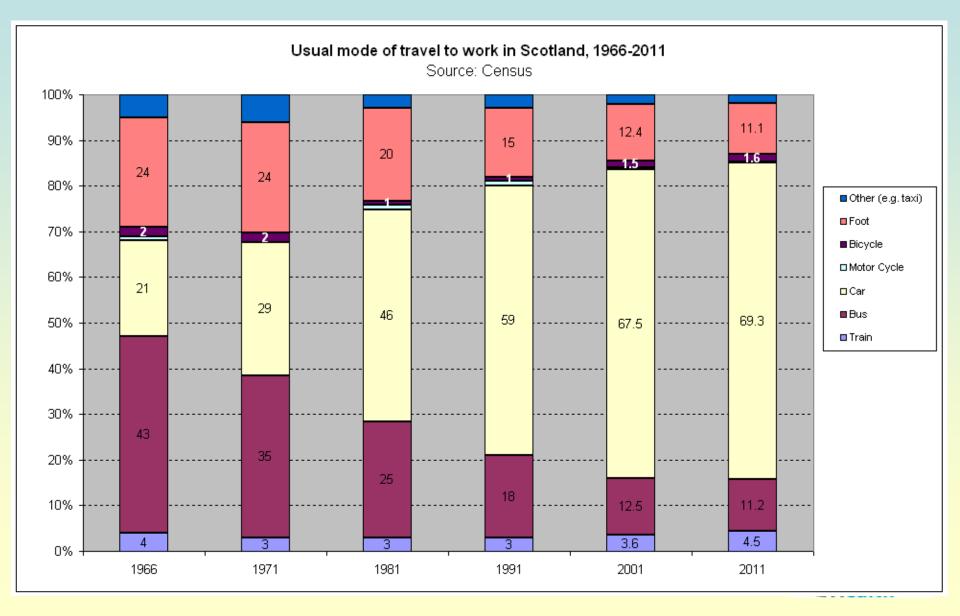




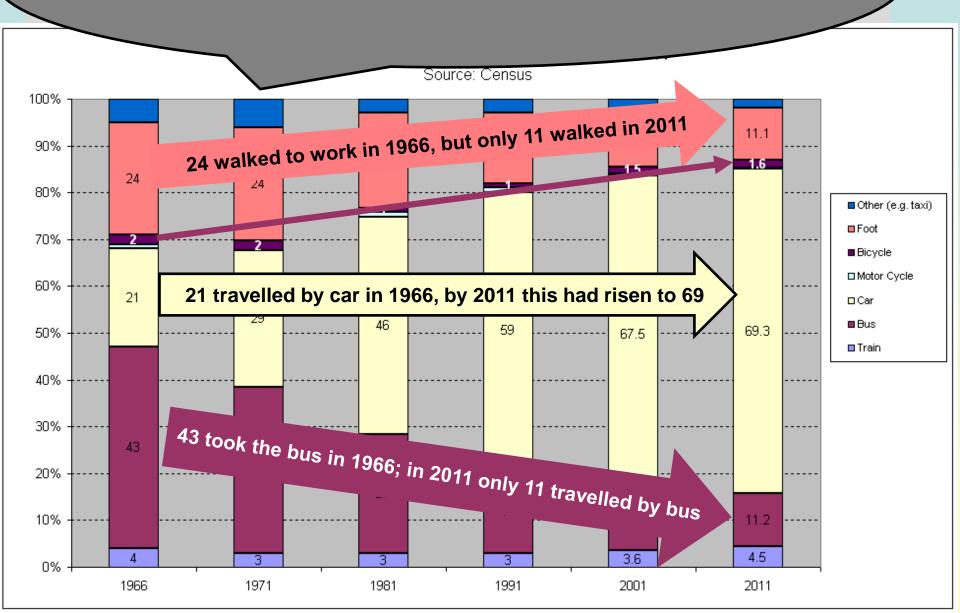
Transport is important

- We need reliable means of transport:
 - To reach employment and education
 - To meet family and friends
 - To access amenities, shops and services
- We're more reliant on transport infrastructure than ever
- Transport patterns are changing...
- ... we're travelling less far by foot but further as a car driver

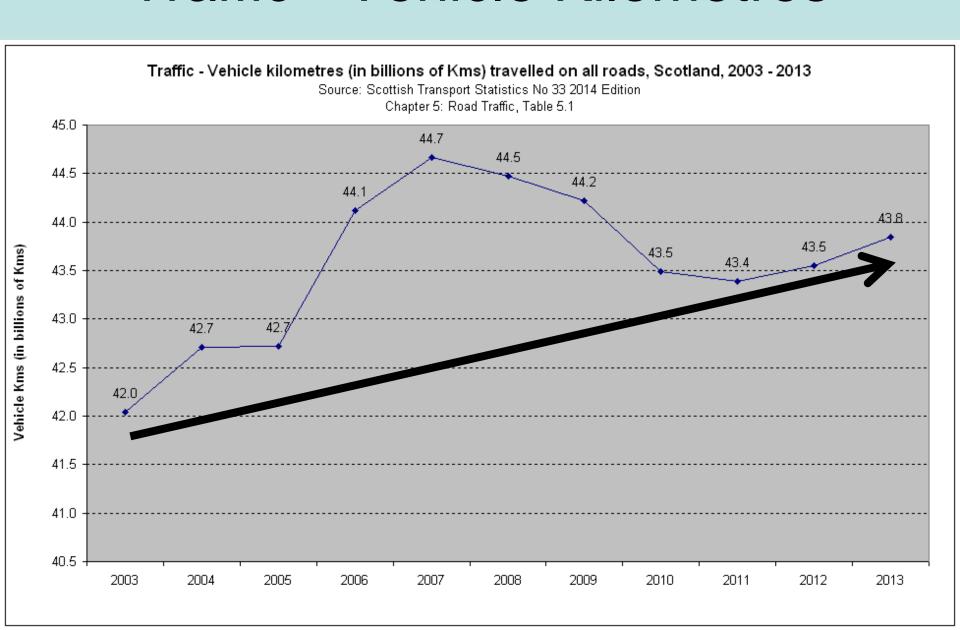
Travel to work trends, 1966 - 2011



Out of 100 commuters...



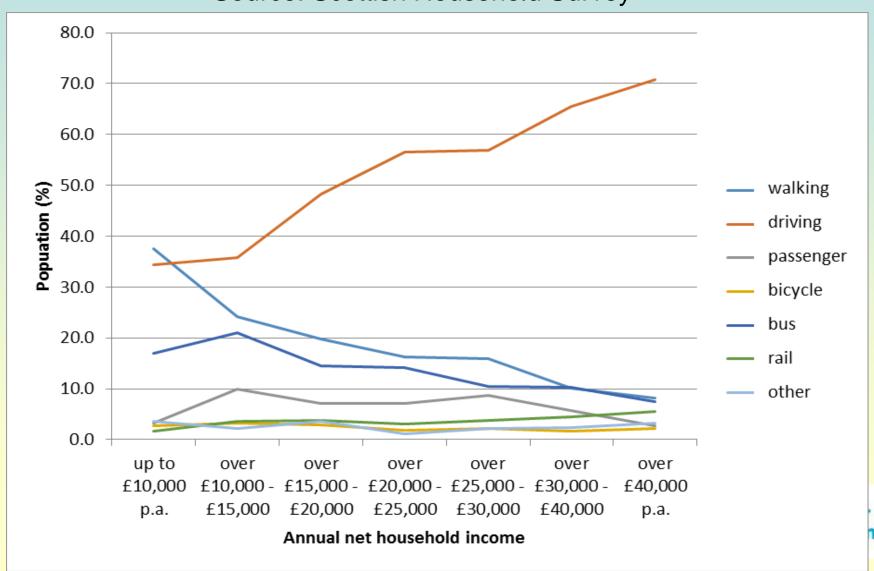
Traffic - Vehicle Kilometres



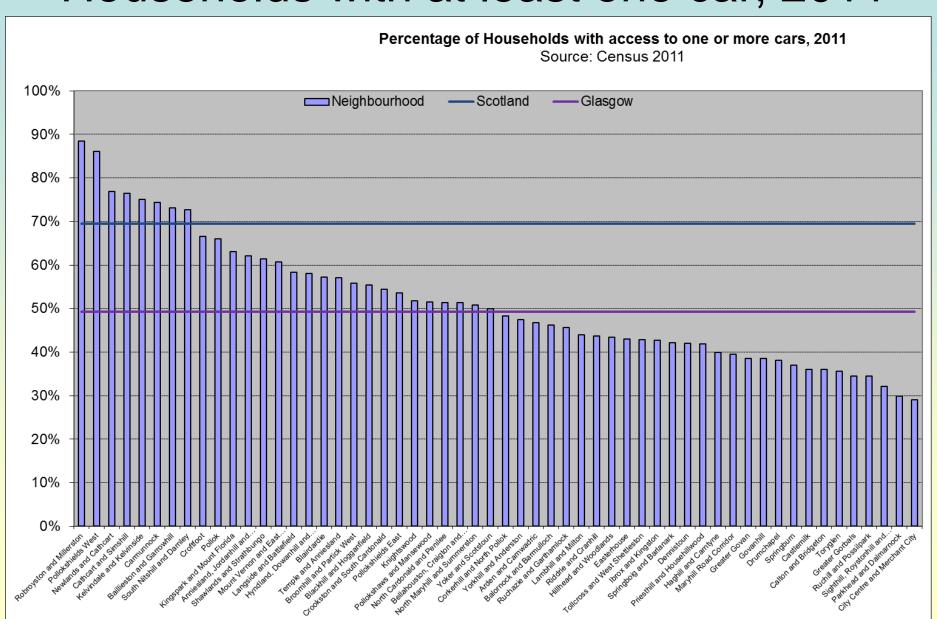
But the pattern is different across the population...



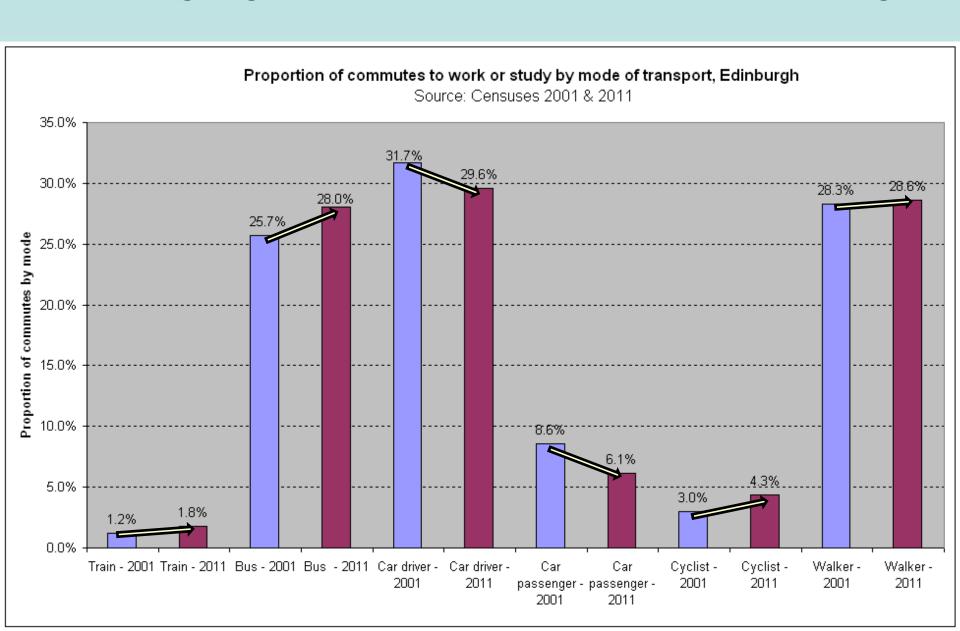
Travel to work (excluding those who work at/from home) shown by annual net income of household, 2015. Source: Scottish Household Survey



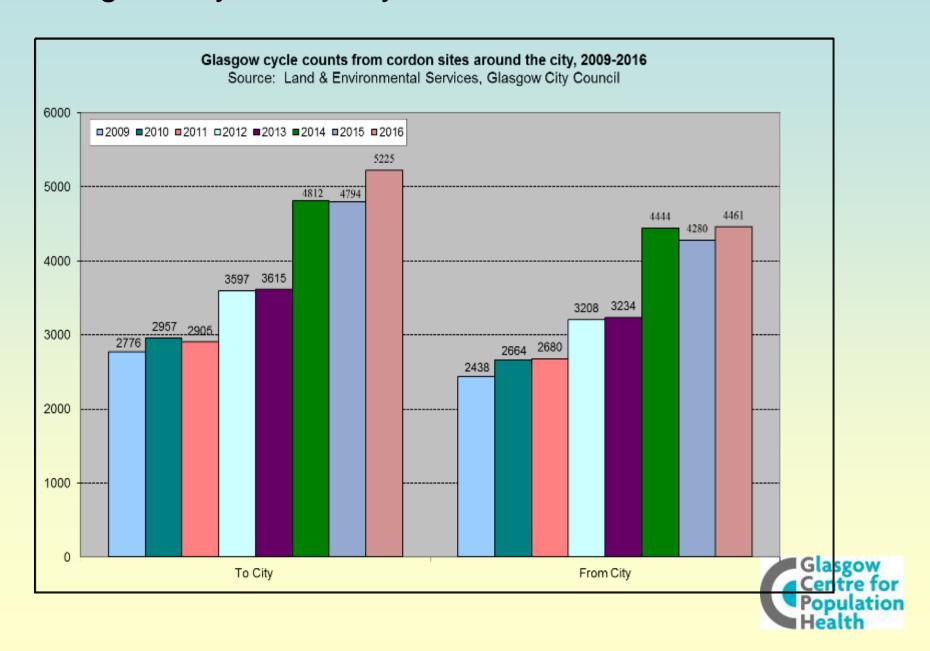
Households with at least one car, 2011



Changing modes of transport: Edinburgh



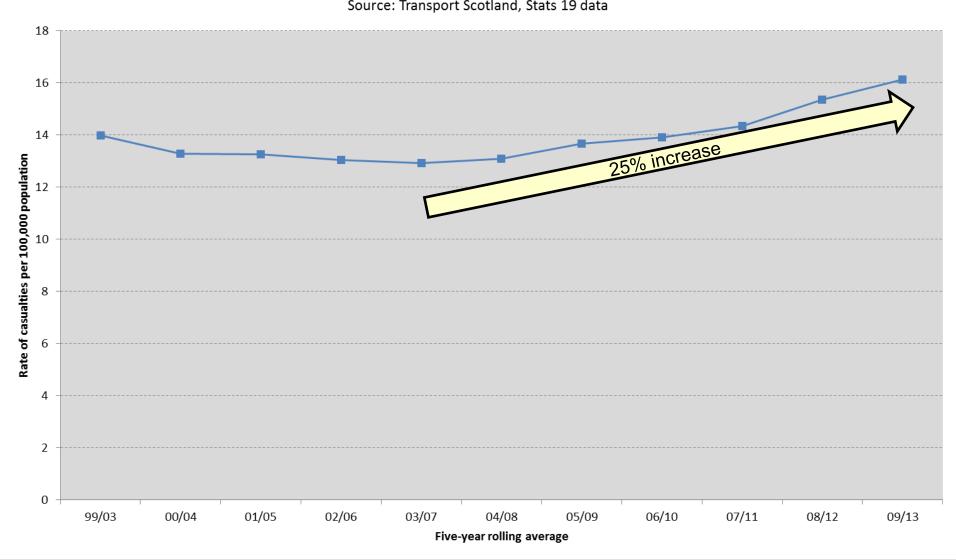
Glasgow City Centre Cycle Counts, 2009-2016



Rise in adult cyclist casualty rate

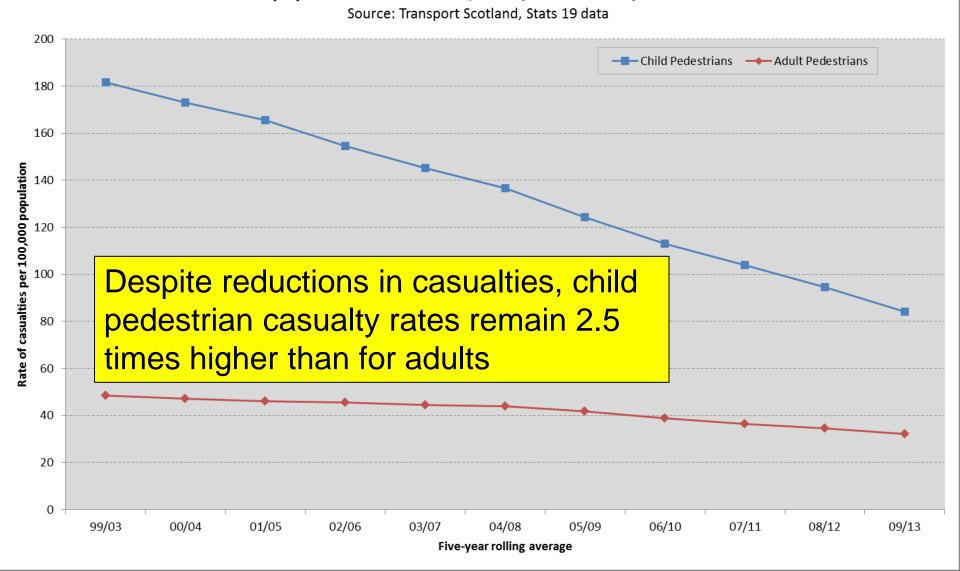
Rate of adult (16+) cyclist road casualties per 100,000 population in Scotland, 1999/2003 - 2009/2013

Source: Transport Scotland, Stats 19 data

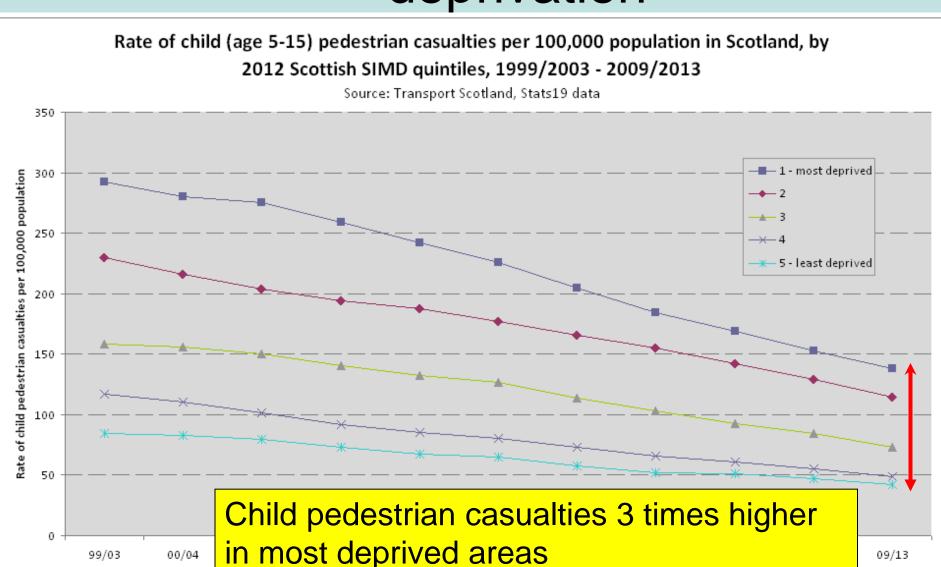


Child pedestrian casualties remain higher than adult casualties

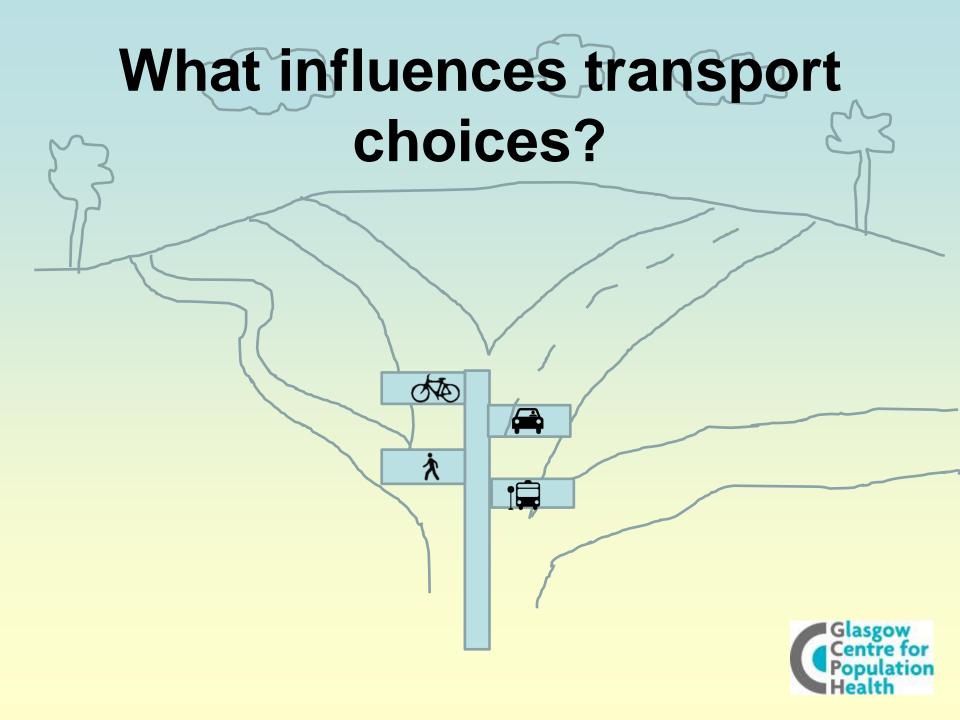
Rate of child (age 5-15) and adult (16+) pedestrian road casualties per 100,000 population in Scotland, 1999/2003 - 2009/2013



Child pedestrian casualty trends by deprivation



5 year rolling average



What influences transport choices?

- Safety
- Traffic speed
- Infrastructure and urban design
- Convenience, time efficiency and cost
- Culture and social norms

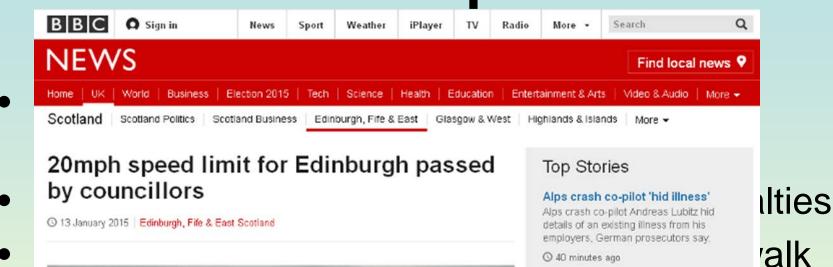


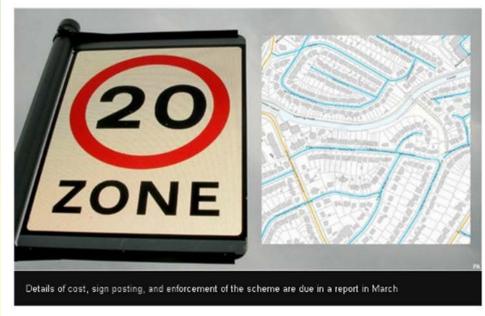
Safety

- Safety concerns discourage walking and cycling (and use of some public transport)
 - Heavy, fast road traffic, unsafe routes, poorly maintained routes, darkness, potholes, broken glass...
- Safety concerns influence travel choices, particularly to school
- Greater sense of safety encourages use of new (segregated) cycle and walking routes



Traffic speed





Councillors have passed plans for more than 80% of Edinburgh's roads, including the whole of the city centre, to have a 20mph (32kmph) speed limit. O 40 minutes ago

Labour to cap private profits in NHS

3 hours ago

British medic declared free of Ebola

31 minutes ago

Features



Testing the mind What psychological screening do pilots have to go through?

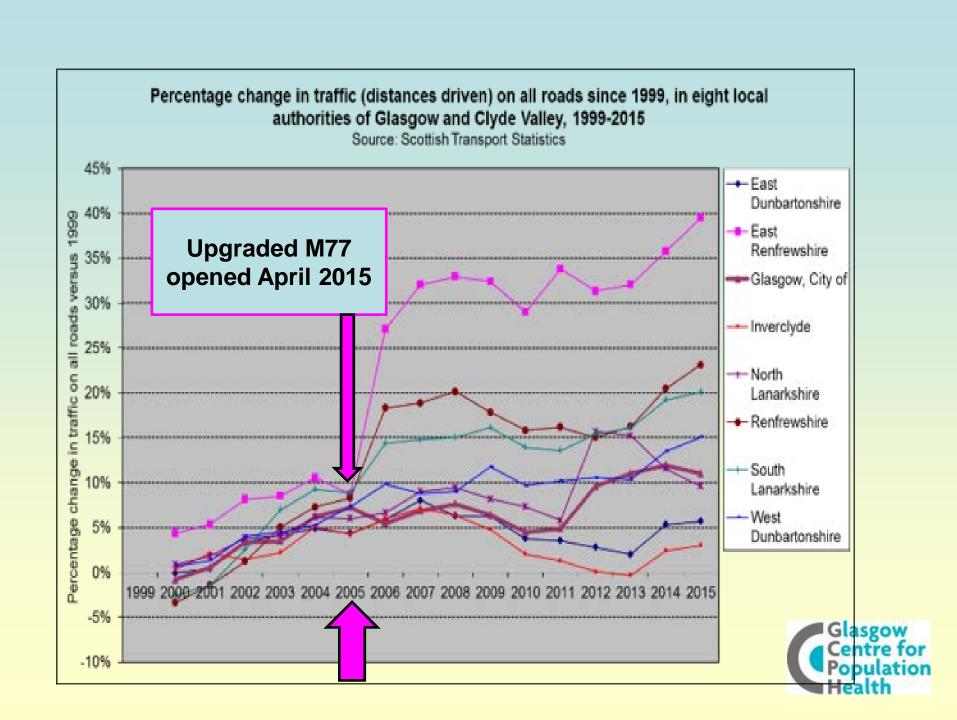
Glasgow

Good Infrastructure



- New cycle/walking routes associated with increased cycling and walking
- Cycle hire scheme encourages more cyclists
- "build it and they will come"
- ... new road infrastructure also encourages more car use





Good Infrastructure

- New cycle/walking routes associated with increased cycling and walking
- Cycle hire scheme encourages more cyclists
- "build it and they will come"
- New road infrastructure encourages more car use
- Importance of attractive places/spaces



Convenience, time and cost

- Inadequate public and active travel infrastructure can be a barrier to employment and other connections.
- Public transport:
 - Takes too long; no direct route; too costly; no or limited service.
- Car travel considered convenient, flexible, easy and affordable, particularly for those with complex journeys. Often "essential"



Transport needs of more disadvantaged communities?

- Likely to be relatively low-paid, self-employed, part-time, shift or contract workers
- Most likely to have transport needs outside of 'working hours'
- May have long term health conditions
- More likely to have limited finances
- Less likely to have access to a car



"Are we forcing people into car ownership?"

- Relationship between car ownership and financial status changing
- Some indication of 'forced' car ownership in financially distressed households
- Reasons?

Curl, A., Clark, J. and Kearns, A. (2017)
Household car adoption and financial difficulties:
a case of 'forced car ownership'?

Transport Policy (early online publication).



Culture and social norms

- Individual's choices influenced what is 'normal'.
- For most, cycling is not considered a transport option.
- Freedom and independence are important and associated with cars.
- Public transport is increasingly a service for those who can't afford a car



How to increase active travel?

- Strong leadership, improved co-ordinatioin and a shift in investment
- Innovative and progressive urban planning
- Integrated infrastructure
- Culture and behaviour change



Strong leadership, integrated policies & investment

"Strong political leadership and commitment is needed ... that positively discriminates in favour of walking, cycling and public transport use over the car" (GCPH, 2010)

- Good developments in Glasgow
 - nextbike, new cycle routes, 20mph zones
- But ...needs to go beyond active travel: a sustainable, inclusive transport policy.
- And be integrated with other key policies (air quality, climate change, urban planning)
- Consistent vision and leadership, community engagement and a shift in investment required



Urban planning

- Inequalities should be a key consideration
- Traffic speeds need controlled
- Safe routes to school should be a priority.
- Safe walking, cycling & outdoor play should be possible
- Neighbourhoods should be able to access high quality local amenities: connectivity.



Integrated infrastructure

- New infrastructure associated with increased commuting by foot and bike.
- Maintenance of active travel routes is important.
- Need greater recognition of the vital role of public transport and safe active travel routes in broader strategies to address inequalities and exclusion





Culture & behaviour change



- Cars dominate
- If we want more balance, need to:
 - Involve communities in the difficult decisions about transport policy locally and nationally
 - make walking and cycling and public transport safer, more convenient, more accessible and more acceptable for everyone
 - improve knowledge and skills of all road users

Where next for GCPH?

What would you like to see us do next?

For example:

- Future programme of work on active and sustainable transport?
- Include research to better understand changes in bus use and in car ownership
- Learn from other UK cities who have seen promising change?
- How can we encourage more children to walk to school in Glasgow?
- Something else?



Thank you.

Jill Muirie

Jill.Muirie@glasgow.ac.uk

Glasgow Centre for Population Health

www.gcph.co.uk

