







# Are changes in forest access associated with changes in health?

- Places change over time as well as people's health
- However, a lack of longitudinal studies



### Aims

- Are improvements in forest access associated with improvements in general health?
- Does the association vary between social groups?
- Does visiting forests explain the association?



### Measuring forest access

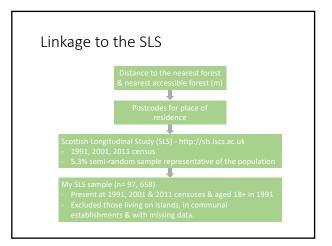
20-year time period - Census years: 1991,2001,2011

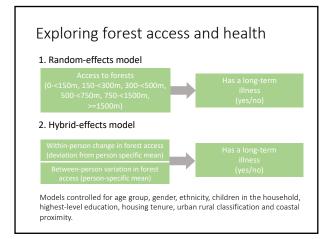
Forestry data

- National Forest Inventories
- Land Cover Map
- Roads, tracks and paths (Ordnance Survey)

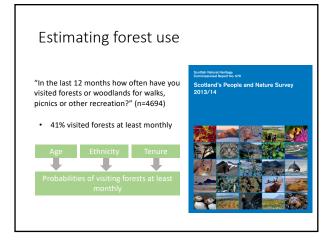
Euclidean distance to the nearest forest was calculated for every postcode in Scotland.

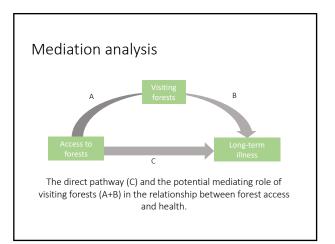






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## Were people healthier when they lived closer to forests?

No...

- Random-effects model
- People improving forest access (from >1500m to <150m) had better health.</li>
- Hybrid-effects model
  Variation due to differences between those with and without good forest access rather than changes.



Source: Scottish Longitudinal Study (SLS) Findings are provisional and not available for dissemination or publication

# Differences between forest types and social groups

- Accessible forests had slightly stronger associations with reducing likelihood of long-term illness.
- Men and those without qualifications benefited more from living closer to forests.
- Within-person change insignificant for all sub-groups.

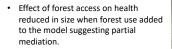


Source: Scottish Longitudinal Study (SLS) Findings are provisional and not available for dissemination or publication.

# Did visiting forests explain the association?

To some extent...

 Likelihood of visiting forests monthly significantly increased as forest access improved.



Source: Scottish Longitudinal Study (SLS) Findings are provisional and not available for dissemination or publication.

### A few discussion points...

- Improvements in forest access did not improve health, why?
- Why did men and low SES benefit more?
- What about other mediators?

### Some limitations...

- Synthetic estimate
- Time pointsChildhood experiences



