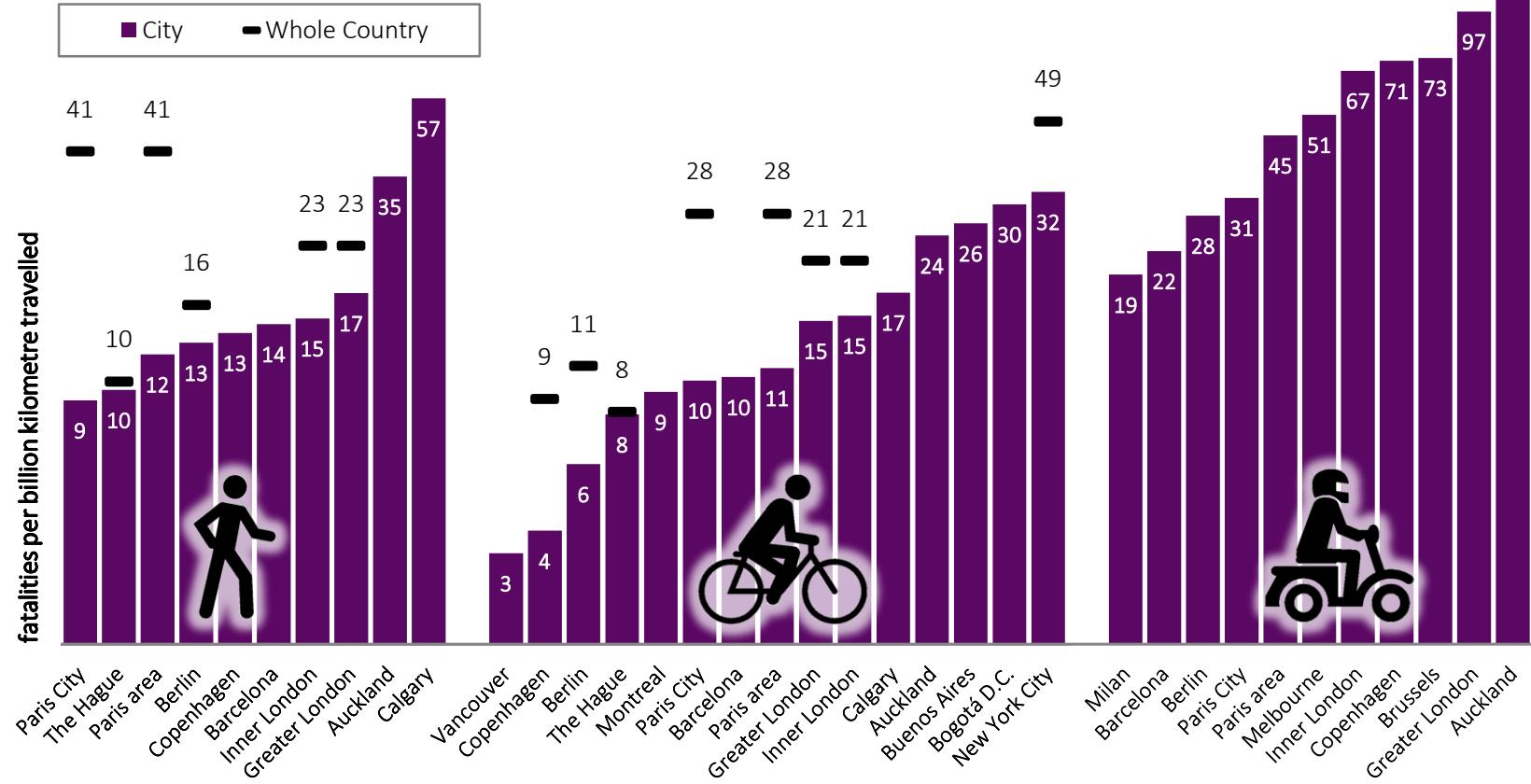


Estimation of road user risk in European cities where mobility data is missing

Alexandre Santacreu

4th meeting of the Safer City Streets network, London, UK – 20 Nov 2018

Risk of fatality per unit distance travelled, 2011-2015



Safer City Streets database

- ▶ 41 functional urban areas (FUAs)
- ▶ CARE database



Commuter mode share

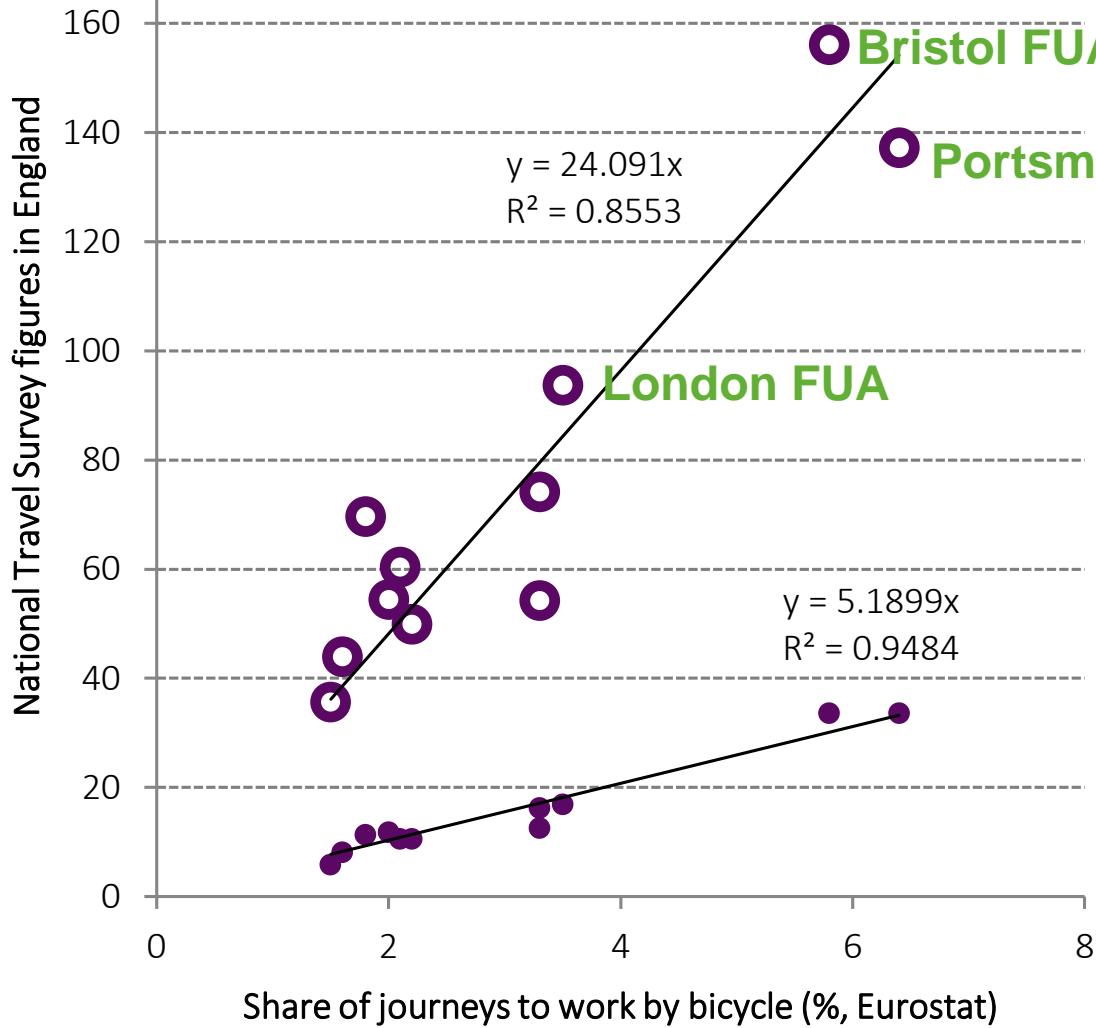
- Eurostat provides mode shares in journeys to work, but only for some FUAs
- In Italy, the ITF used the population census to derive such mode shares



From mode shares to trips and distances

- Travel survey data is much preferable
- 11 FUAs in England
- Correlations observed in England between the cycling mode share and the cycling trips and distance statistics
- 15 FUAs outside of England: estimated cycling trips and distances
- Correlations were weaker for other modes





● Cycling distance (km) per person per year

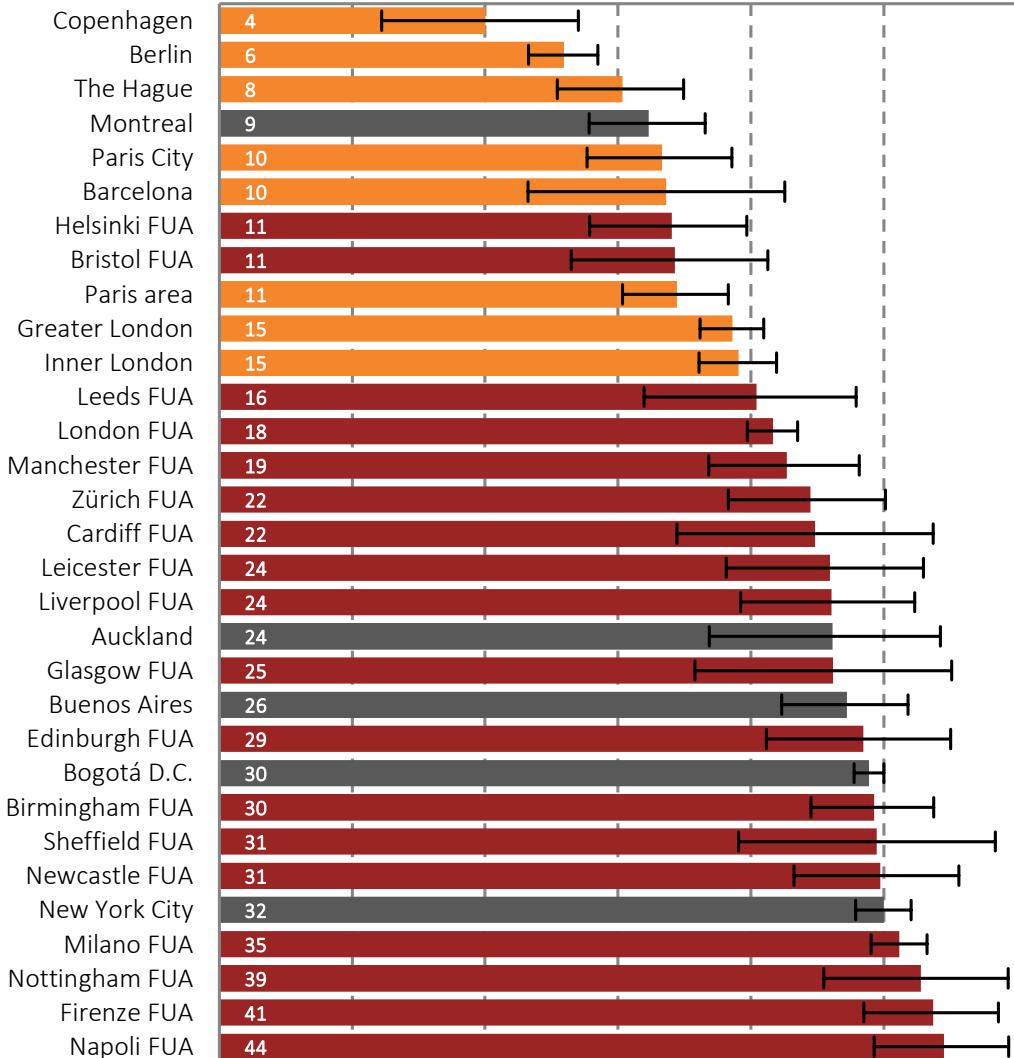
● Cycling trips per person per year

Sources:

Eurostat Urban Audit Database,
TT1007V, averaged over 2010-2014

UK Department for Transport, National
Travel Survey, averaged over 2009-2015

Risk of fatality per unit distance cycled, 2011-2015



Thank you

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