



WHAT CAN WE LEARN ABOUT DEPRIVATION FROM STATS19?

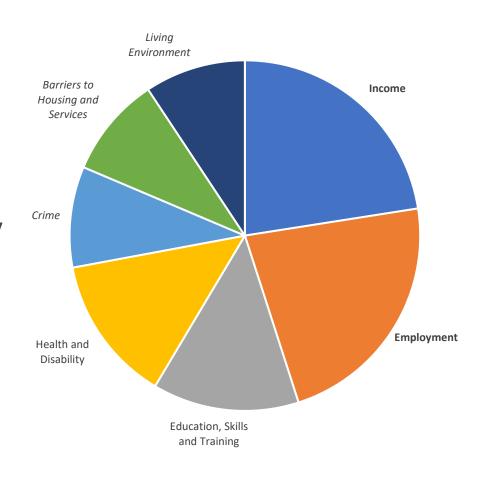
Bruce Walton Technical Director, Agilysis



- Well known relationship between road risk and deprivation
- Recent example: Transport for London
 - "Almost twice as many people living in the most deprived 30 per cent of London are killed or seriously injured in road collisions than people living in the least deprived 30 per cent"
 - Results published in a <u>dashboard</u>
- "How could I do something like that?"

MEASURING DEPRIVATION WITH IMD

- Index of Multiple Deprivation
- Official measure of relative deprivation for small areas
- Seven different domains
 - Income deprivation affecting children and older people also scored separately
- Combining information produces overall relative measure
- Last updated in 2019
 - "Timelines for any update are yet to be confirmed"



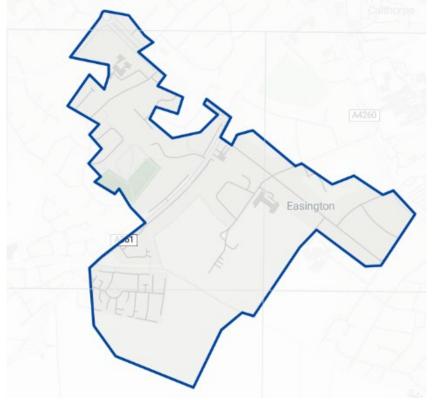
'SMALL AREA' GEOGRAPHY

- Lower layer Super Output Areas (LSOAs) in England and Wales
 - Population between 1,000 and 3,000
 - 33,755 LSOAs in England
 - 1,917 LSOAs in Wales
- Data zones in Scotland
 - Population between 500 and 1,000
 - 6,796 Data Zones in Scotland
- Unique code, starting with country letter E/S/W then '01'

'SMALL AREA' GEOGRAPHY

- 'Cherwell 006C' (E01028432)
 - 837 households, with a population of about 1,982

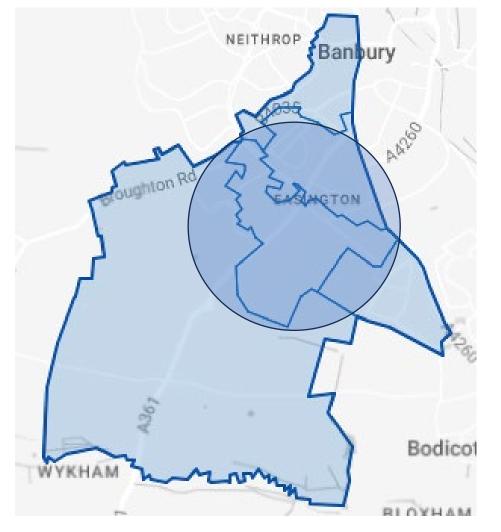




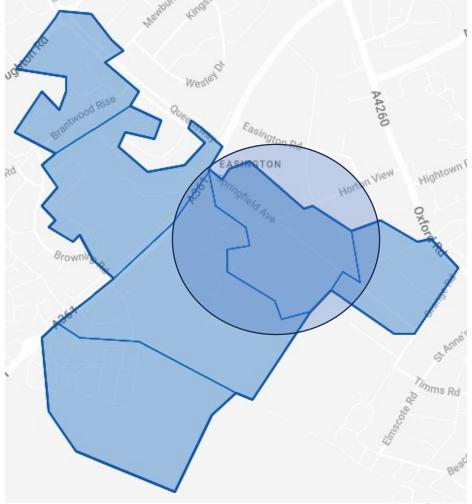
Sources: doogal.co.uk; google.co.uk/maps; statistics.data.gov.uk/atlas

HIERARCHY OF GEOGRAPHY

MSOA 'Cherwell 006' (E02005926)



OA - E00144889



Source: statistics.data.gov.uk/atlas

GETTING DATA ON DEPRIVATION

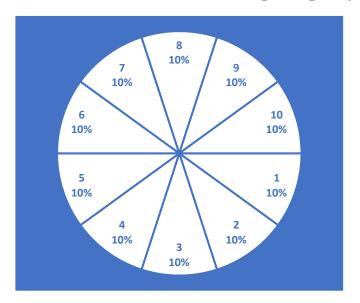
- Download full data for a LAD (by postcode and LSOA)
 - http://imd-by-geo.opendatacommunities.org/imd/2019/area
- Download IMD for a list of postcodes
 - http://imd-by-postcode.opendatacommunities.org/imd/2019
 - Each postcode assigned to LSOA with majority of its residents
 - Postcodes in same LSOA have identical IMD scores
- Download population of LSOAs
 - https://www.ons.gov.uk/peoplepopulationandcommunity/popul ationandmigration/populationestimates

GETTING DATA ON DEPRIVATION

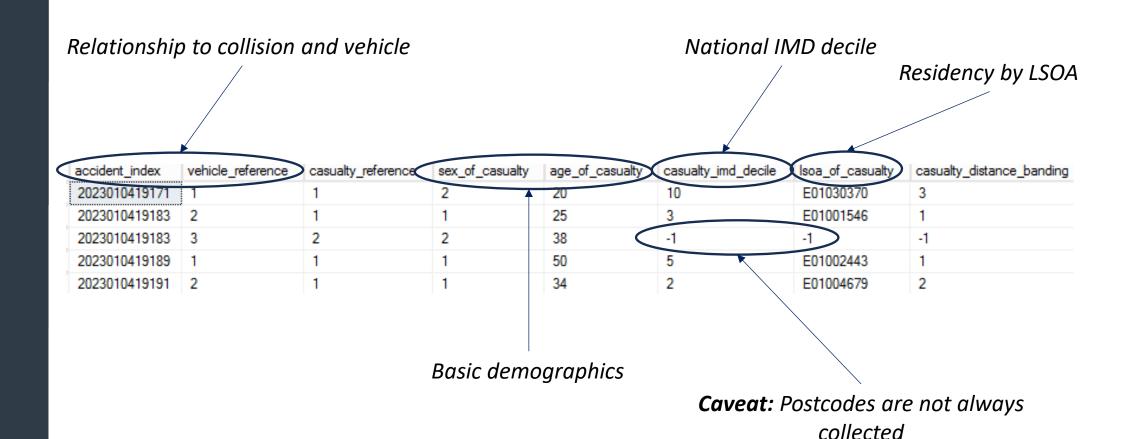


RANKING IN DECILES

- Deciles separate data into equal tenths
 - Simply sort the data by score, then split it up
 - Quartiles (quarters), quintiles (fifths), vigintiles (twentieths) also used
- Downloaded decile is relative to England
 - Can easily be re-calculated for other geographies



DFT PUBLISHED STATS 19 DATA



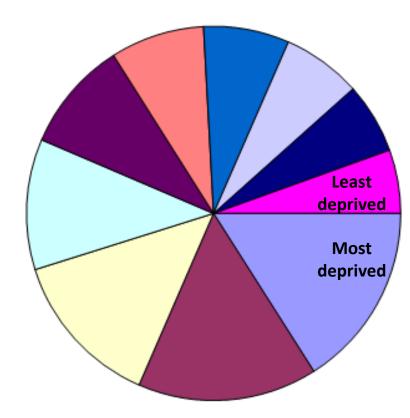
The same metrics are available for drivers and riders

Source: DfT Road Safety Data (data.gov.uk)

THE NATIONAL PICTURE



All GB casualties who live in England 2018-22



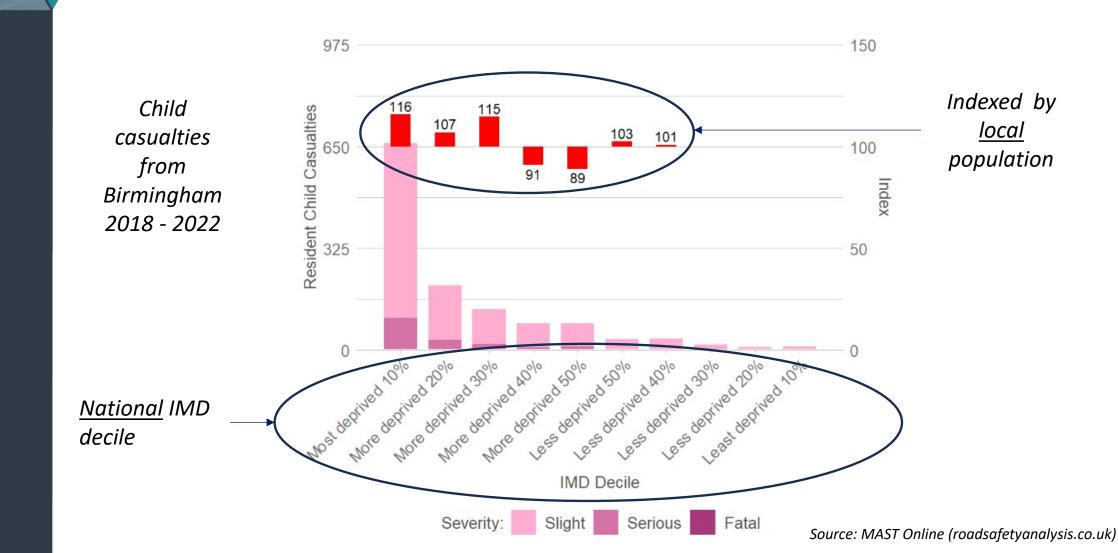
Pedestrian GB casualties who live in England 2018-22

Source: MAST Online (roadsafetyanalysis.co.uk)

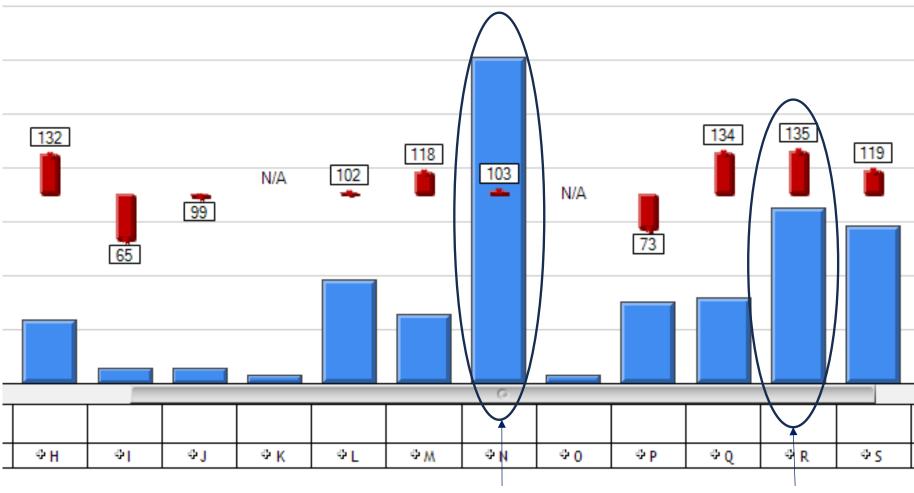


- Average annual casualties with a reported postcode on Birmingham's roads in the last five years:
 - 2,556, of whom 1,939 lived in Birmingham
 - **76%**
- Average annual Birmingham resident casualties with a reported postcode on **Britain's** roads in the last five years:
 - 2,479, of whom the same 1,939 were injured in Birmingham
 - **78**%
- Deprivation is more about people than collision location

NATIONAL AND LOCAL DEPRIVATION



NEXT STEPS: SOCIO DEMOGRAPHICS



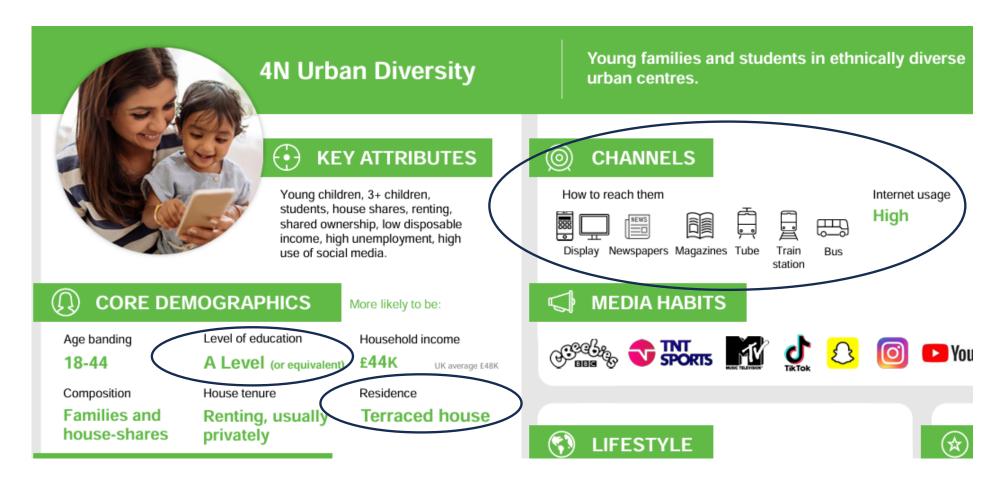
Birmingham resident casualties 2018 - 2022 "Urban Diversity"

"Hard-up Households"

Source: MAST Online (roadsafetyanalysis.co.uk)

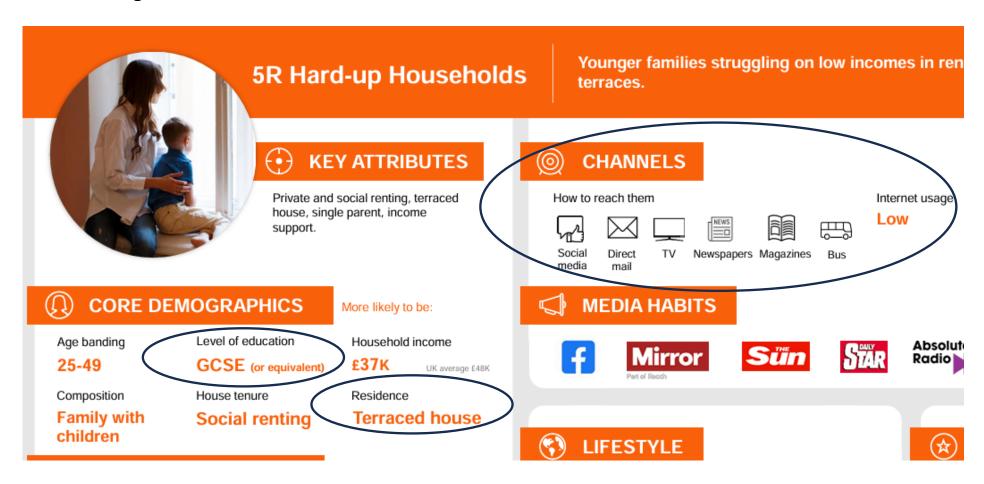
URBAN DIVERSITY

Highest count, index 103



HARD-UP HOUSEHOLDS

Second highest count, index 135



APPLICATIONS

- Insight into relationship of elevated risk and deprivation
 - Road user groups
 - Age groups
 - Community types
- Relating this insight to geographies and population
- Identifying priorities
- Applications for funding
- Guiding education and outreach
 - Channels for communication
 - Community awareness
 - Understanding audience for creatives





QUESTIONS

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