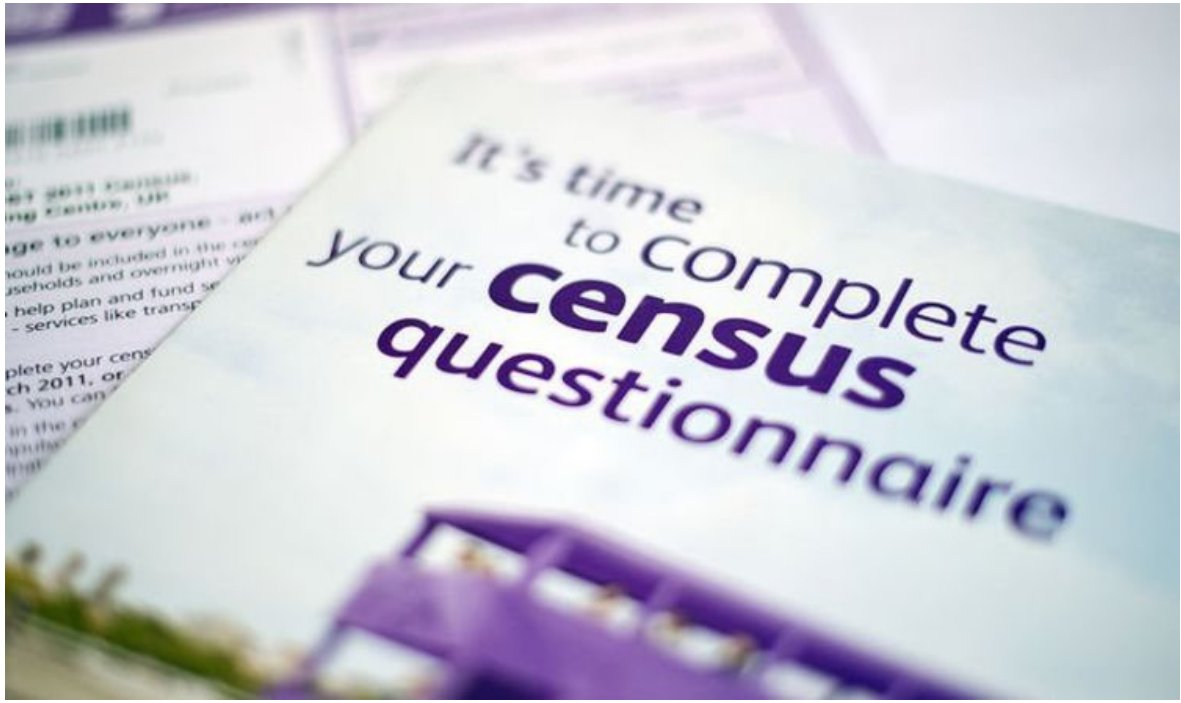
UK Data Service

Census 2021

Building an Area Profile



Economic and Social Research Council

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What we will cover

- Purpose
- Areas of interest
- Geographic scale
- Accessing data
- Practical exercise

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Purpose

Defining your research objective(/s)

Defining scope and scale

- Area(/s) of interest
- Geographical scale
- Audience
- Representation

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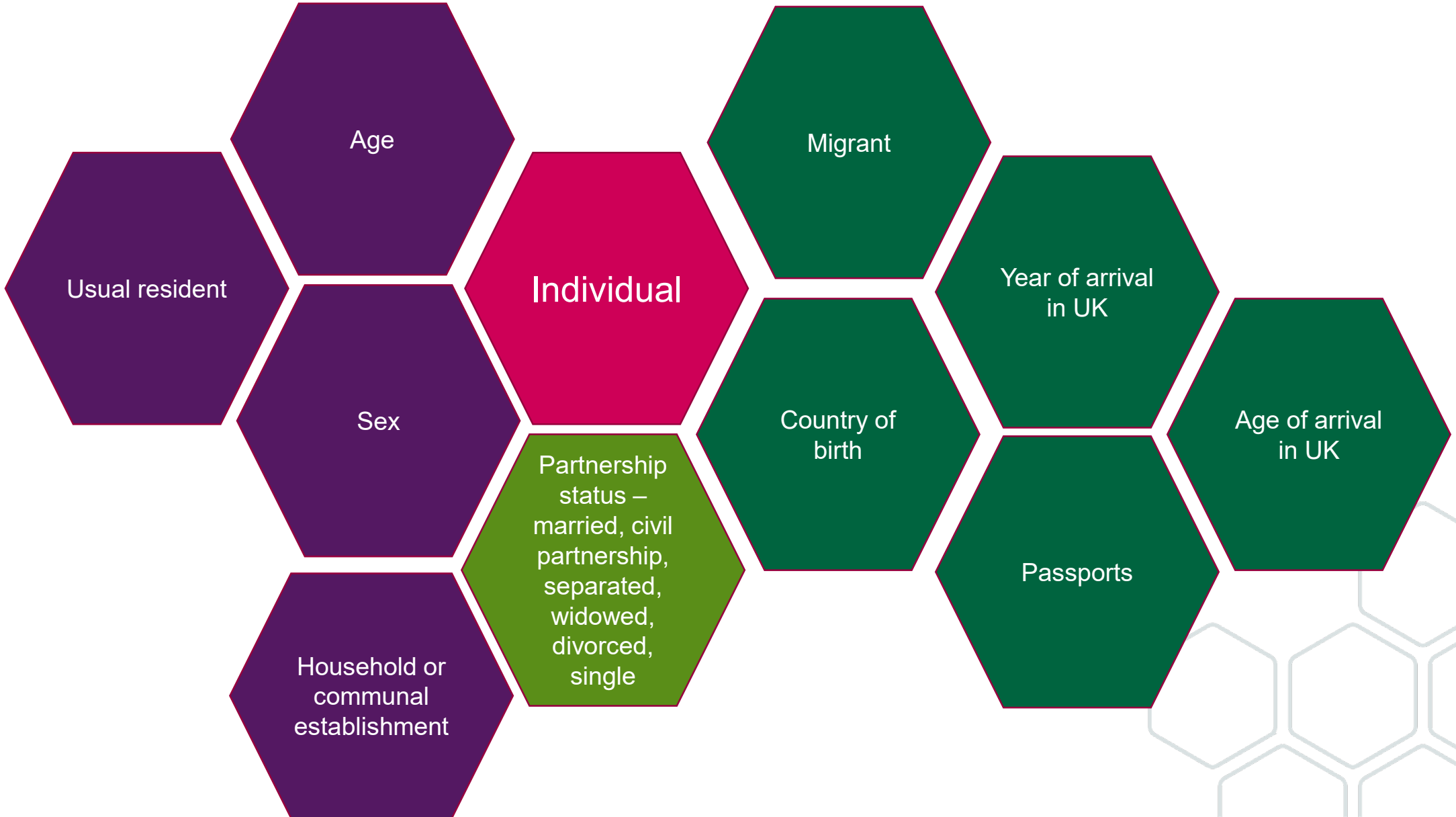
Areas of interest

Univariate data available now for individual / household and, in terms of housing, dwelling spaces

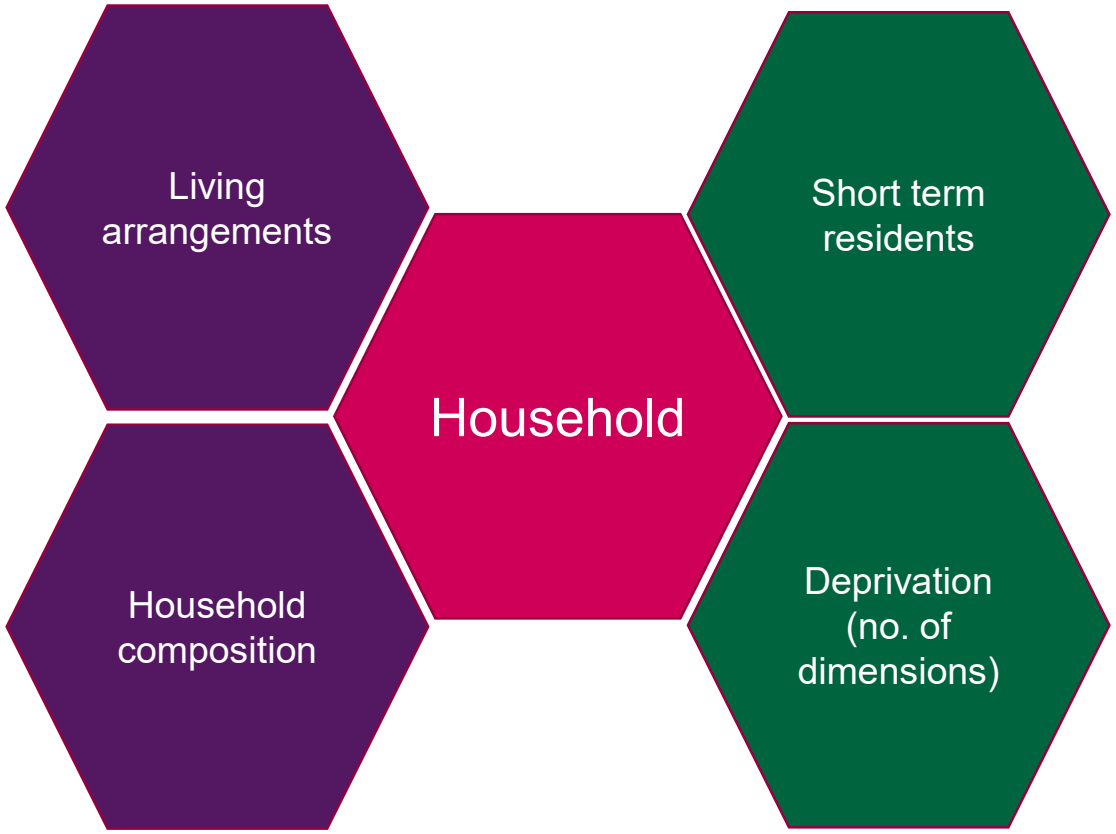
Areas of interest

- demography and migration
- ethnic group, national identity, language, and religion
- UK armed forces veterans
- health, disability, and unpaid care
- housing
- labour market and travel to work
- sexual orientation and gender identity
- education

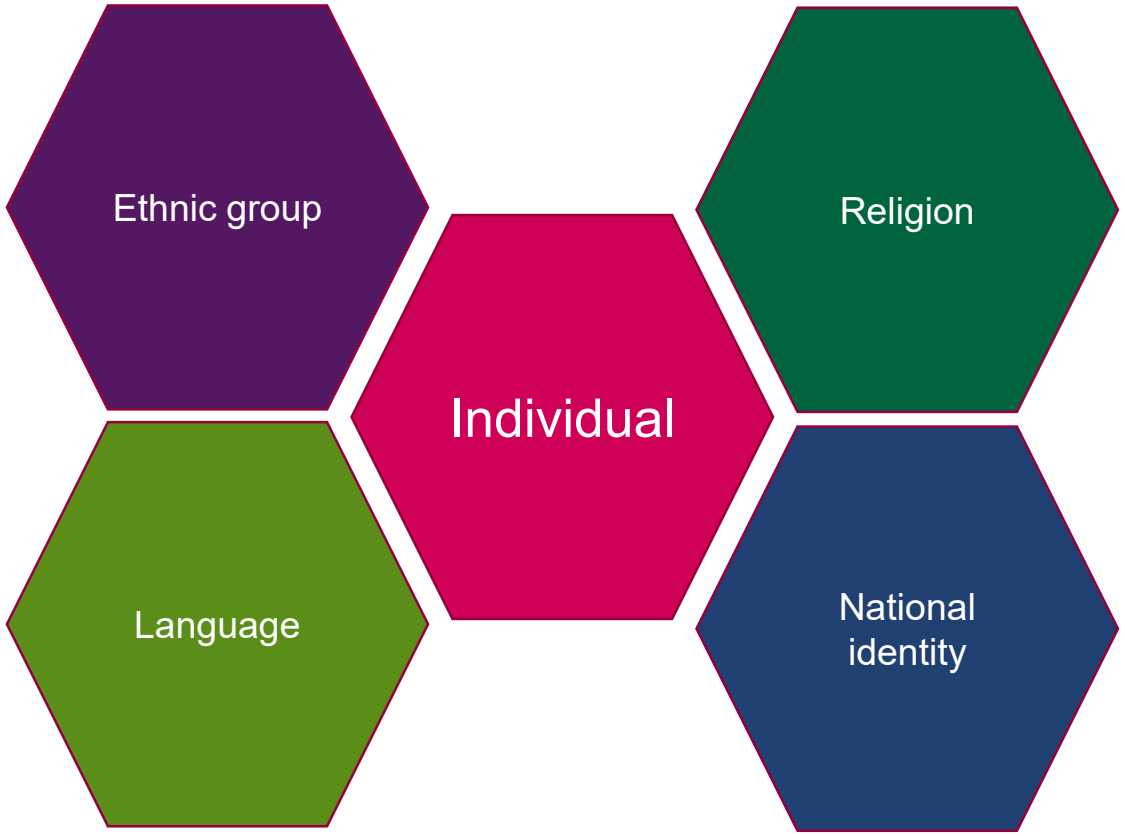
Demography and migration



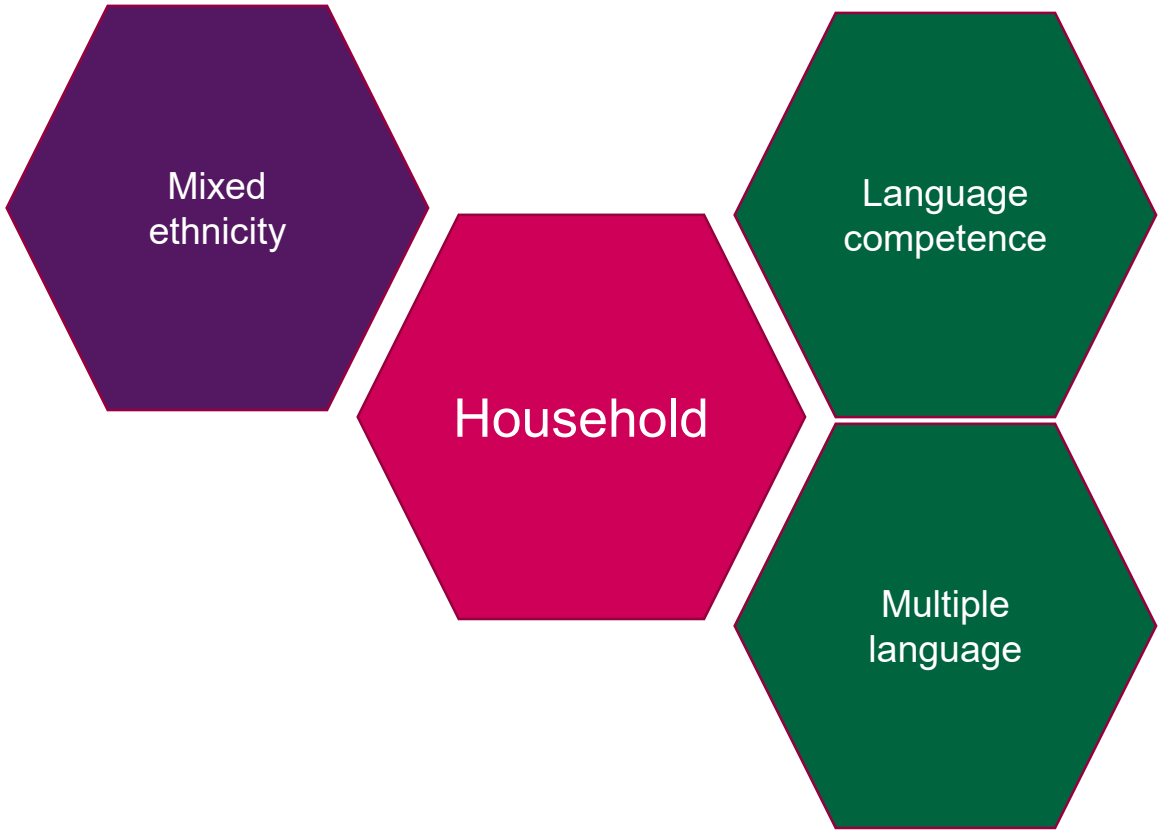
Demography and migration



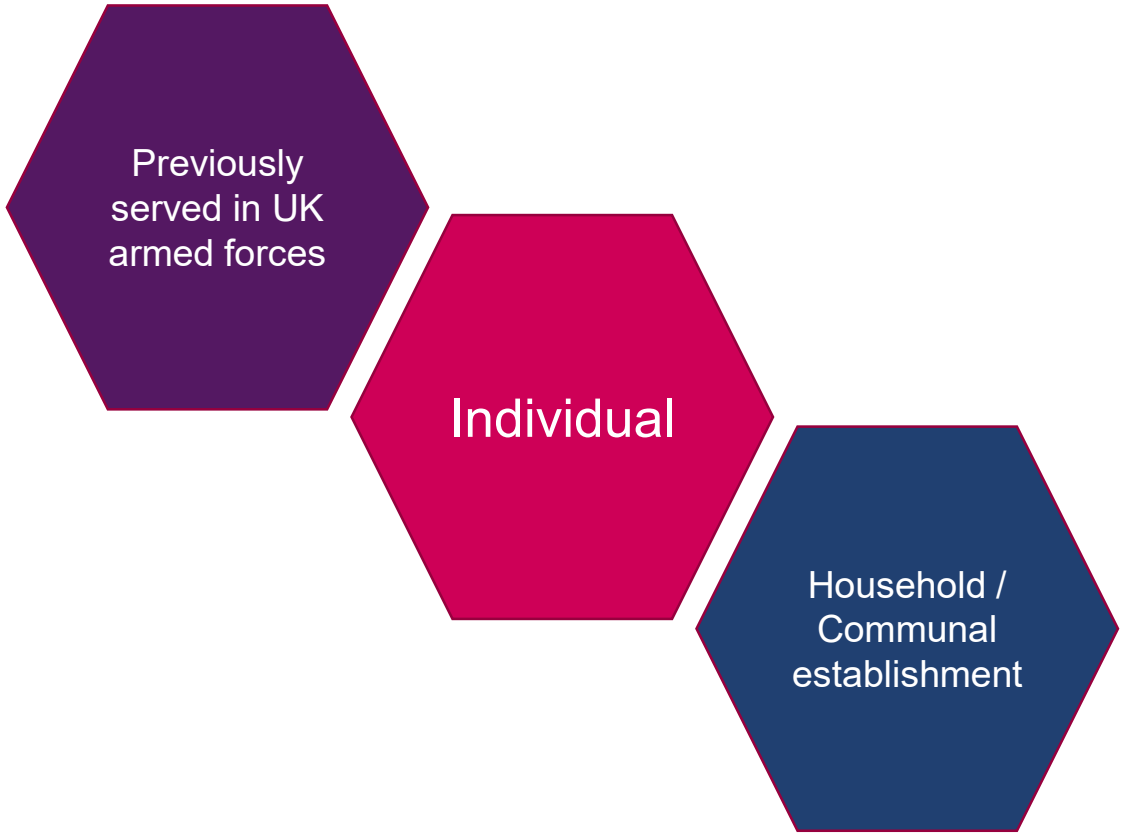
Ethnic group, national identity, language, and religion



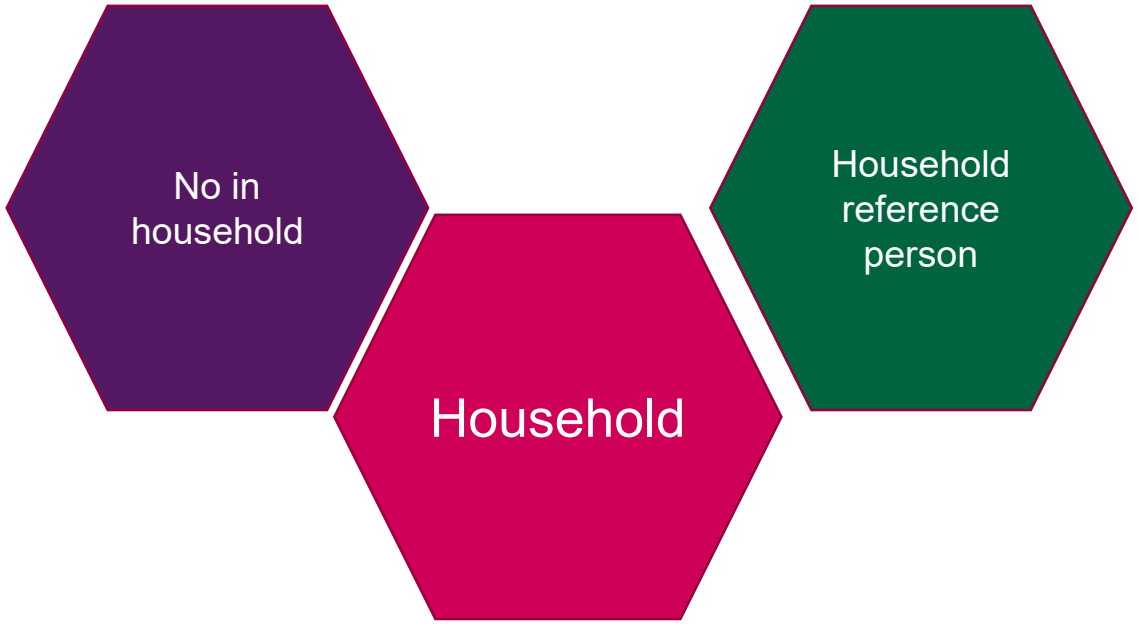
Ethnic group, national identity, language, and religion



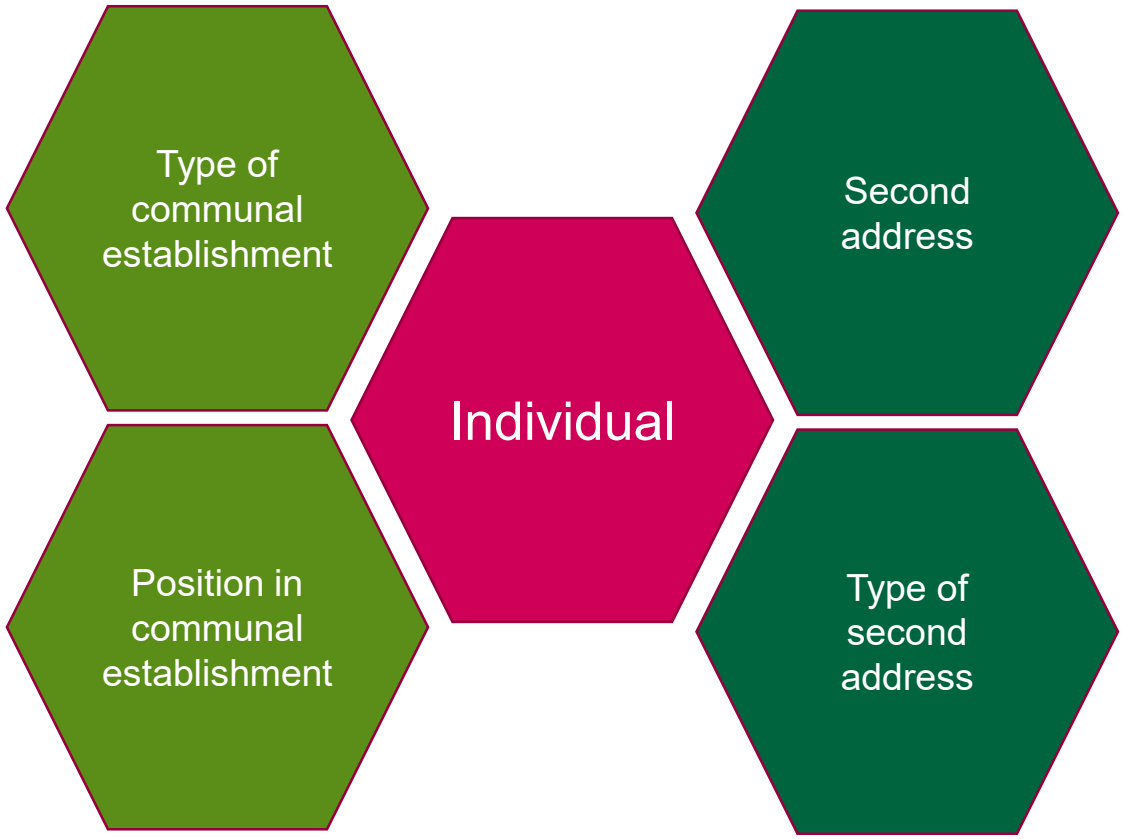
Veterans


Previously served in UK armed forces
Individual
Household / Communal establishment

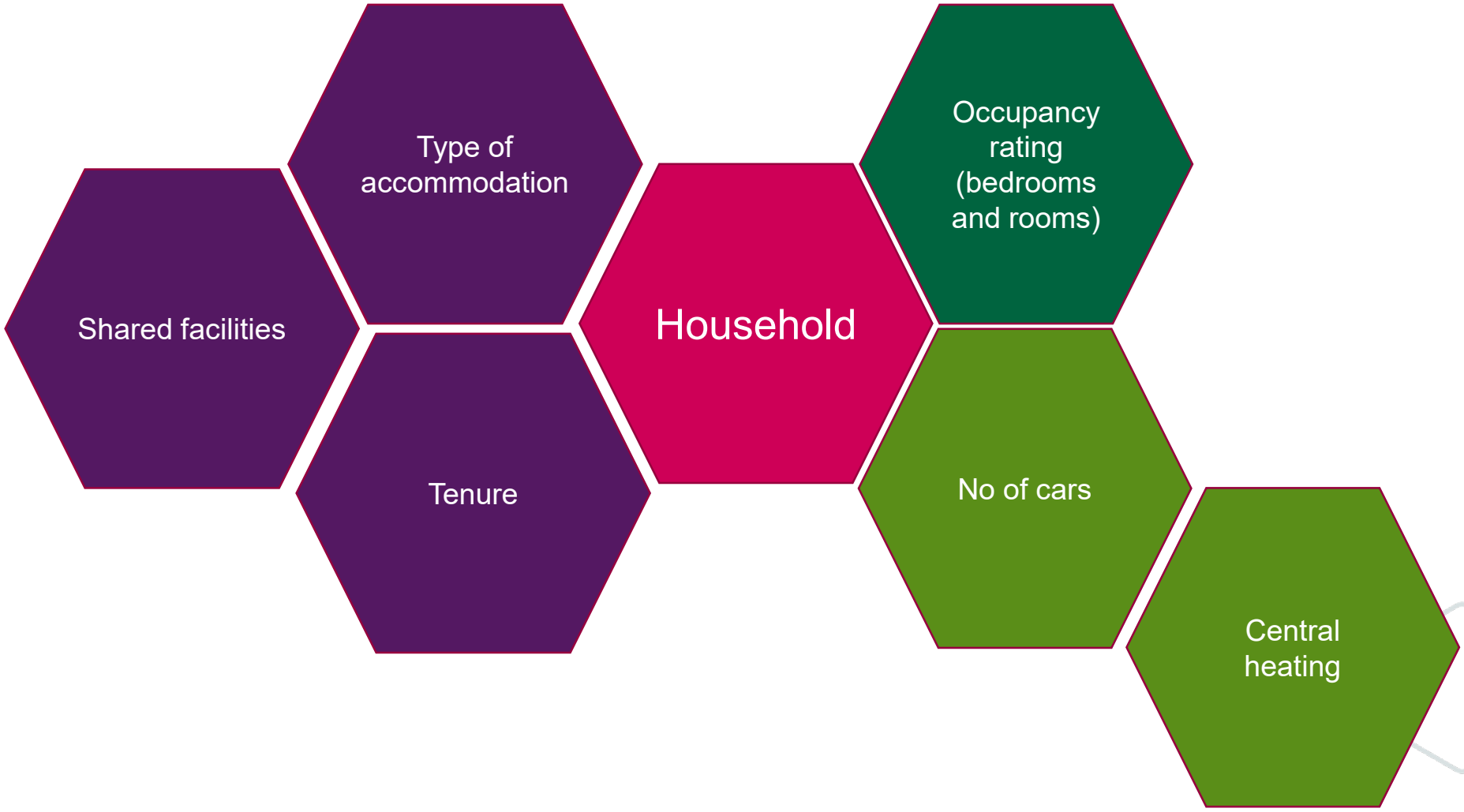
Veterans



Housing

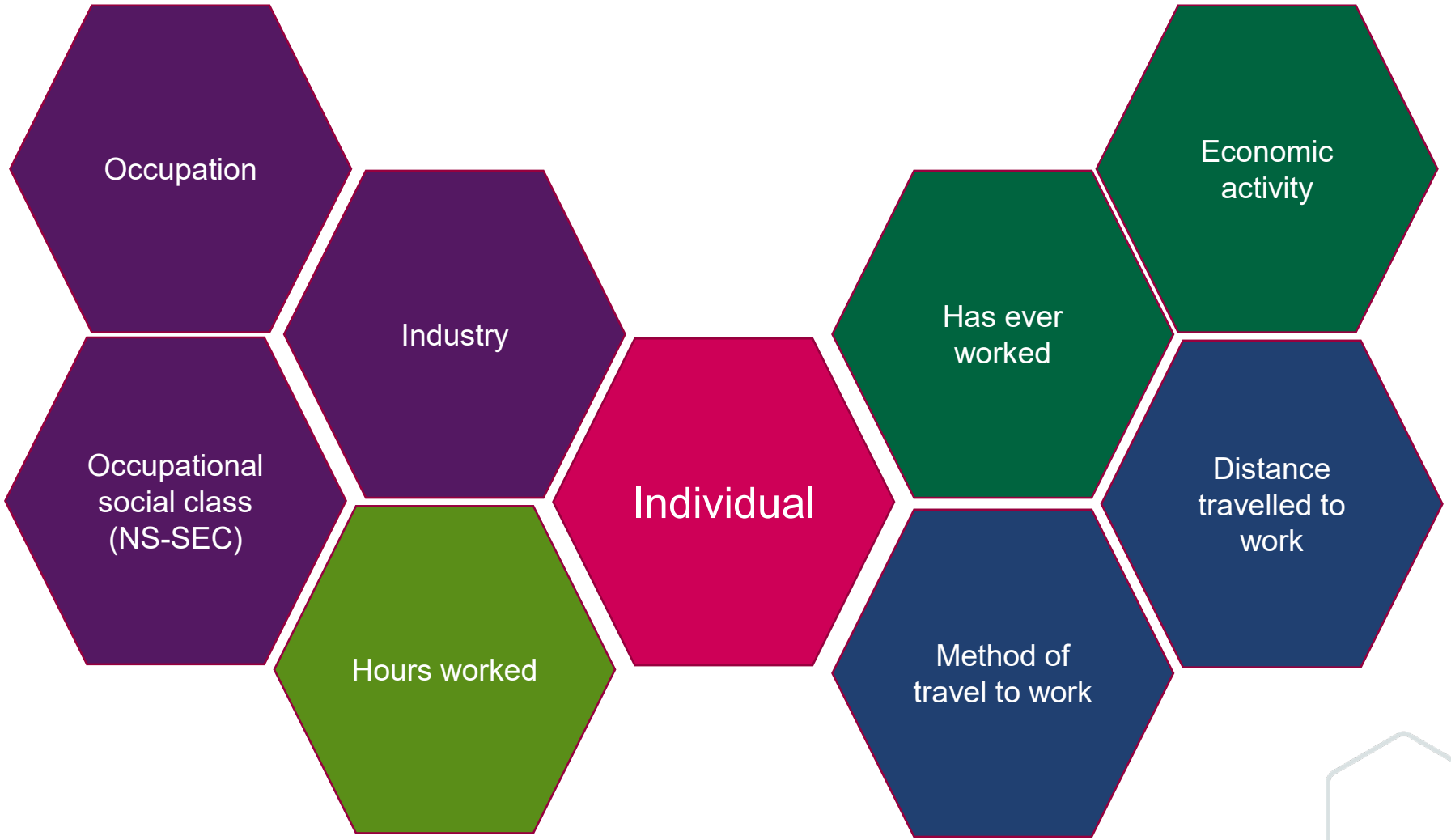

Type of communal establishment
Second address
Individual
Position in communal establishment
Type of second address

Housing

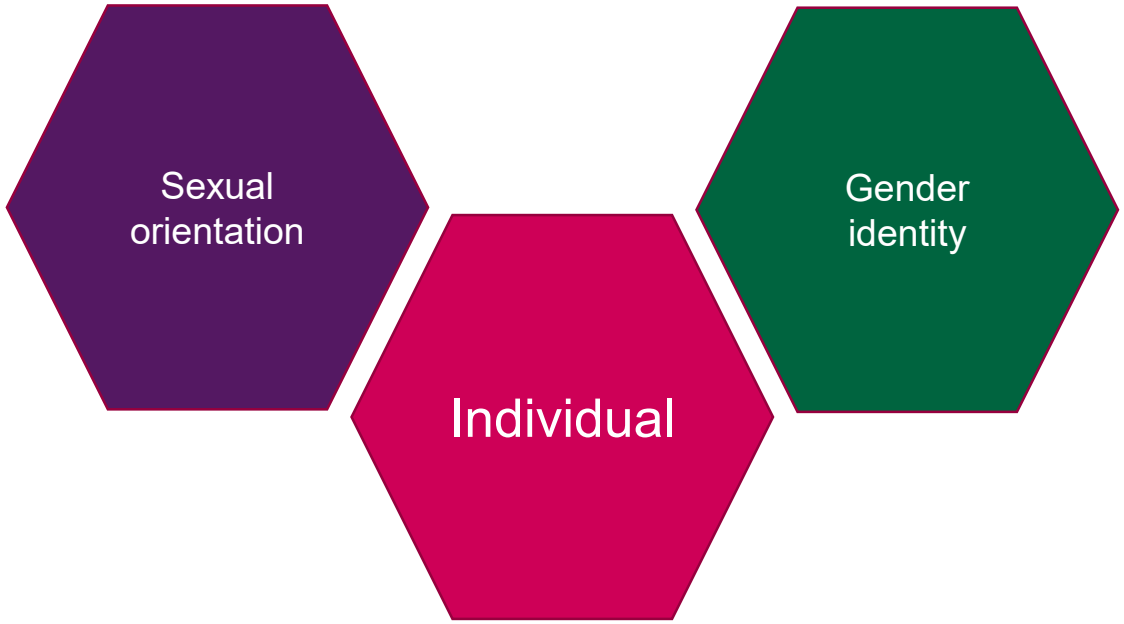

Type of accommodation
Shared facilities
Household
Occupancy rating (bedrooms and rooms)
Tenure
No of cars
Central heating

Housing

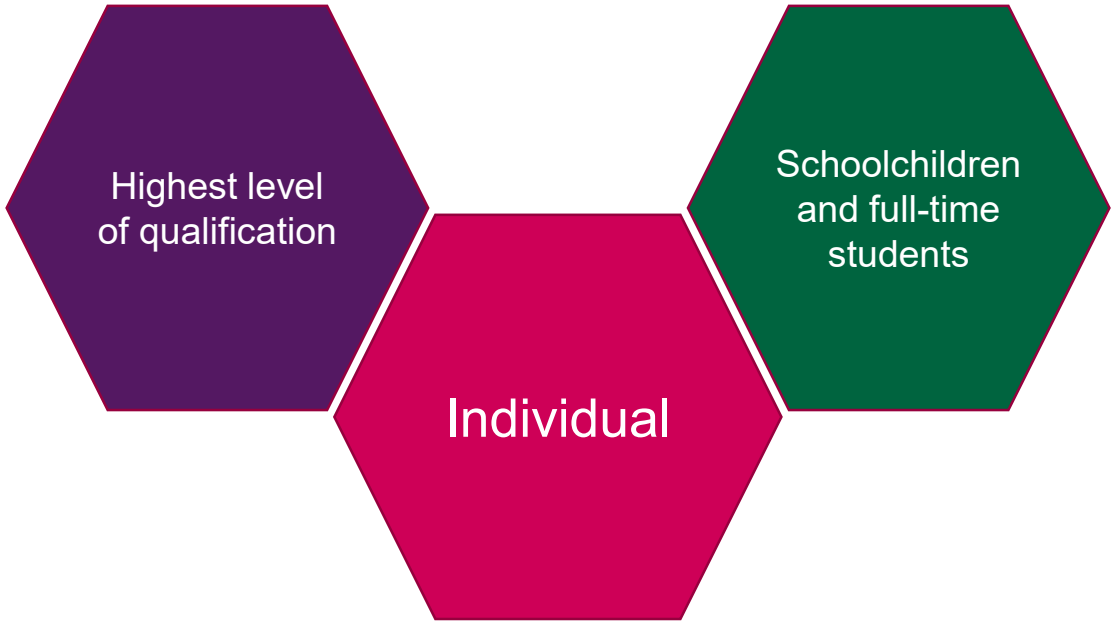
Labour market and travel to work



Sexual orientation and gender identity

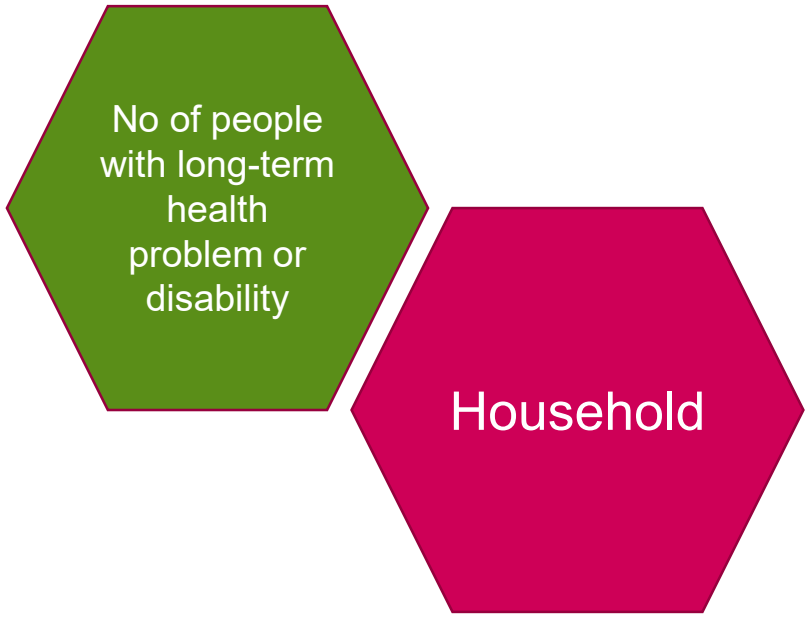


Education


Highest level of qualification
Individual
Schoolchildren and full-time students

General health and disability

General health and disability



Phase 2

Short-term population (intend to stay in the UK less than 12 months)

Multiple variate data including two or more variables at different geographical scales through flexible table builder incorporating statistical disclosure control (from 28th March – provisional)

The variable categories will vary between univariate and multivariate tables based on statistical disclosure control. This is likely to lead researchers to need to balance geographical scale and the level of detail available.

Phase 3 (from spring 2023)

- Alternative population bases
- Small populations
- Detailed migration data
- Flow data
- Microdata

Alternative population bases

- Workplace
- Workday
- Out-of-term
- Second address

Small populations

Write-in categories for univariate analysis depending on statistical disclosure control (including breakdown by five year age bands by sex for selected ethnic groups and countries of birth):

- Ethnic group
- Country of birth
- Religion
- National identity

… with a commitment to produce datasets including Cornish, Jain, Kashmiri, Nepalese, Ravidassia and Sikh (to MSOA level) and …

… consideration of including British Sign Language, Romanian, Somali, Turkish Cypriot

Flow data

Providing origin destination data covering

- Migration flow
- Workplace flow
- Second address flow
- Student flow

NOTE: open, safeguarded and secure versions will be provided

Microdata samples

Safeguarded data includes

- Individual 5% samples including regional or combined local authority geography
- Household 1% sample
- Submission of 1% individual sample to University of Minnesota international database

Secure data

- Individual 10% sample
- Household 10% sample

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Geographical scale

Univariate data available now for individual / household and, in terms of housing, dwelling spaces

Geographical data

Boundary data		
Administrative e.g. Local authority, Health	Electoral e.g. constituency, ward	Statistical areas built on output areas

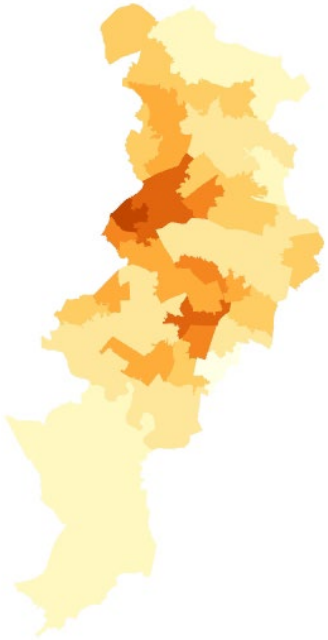
Available from Open Geography Portal (statistics.gov.uk) and UK Data Service

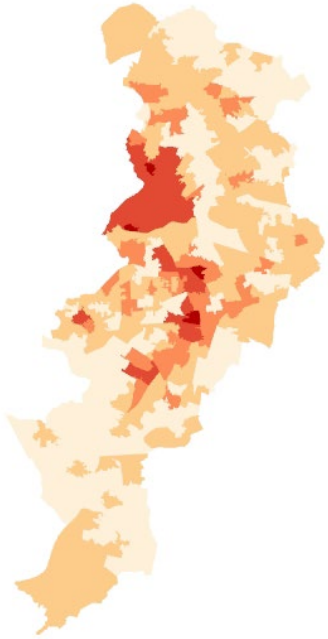
Output area geography

Introduced in 2001 to provide a more homogeneous picture and to provide a stable geography to explore change over time.

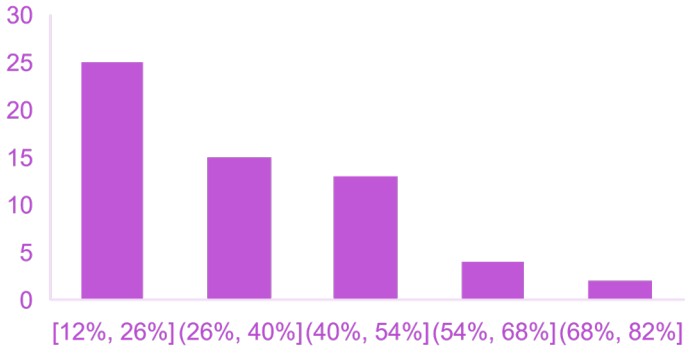
Scale	Minimum	Maximum	Notes
	Household / individual		
Output area (OA)	40 / 100	250 / 625	
Lower layer (LSOA)	400 / 1,000	1,200 / 3,000	Used in published statistics such as IMD and reported crime
Mid layer (MSOA)	2,000/5,000	6,000 / 15,000	Used in published statistics such as Covid cases and educational attainment

Implications of scale

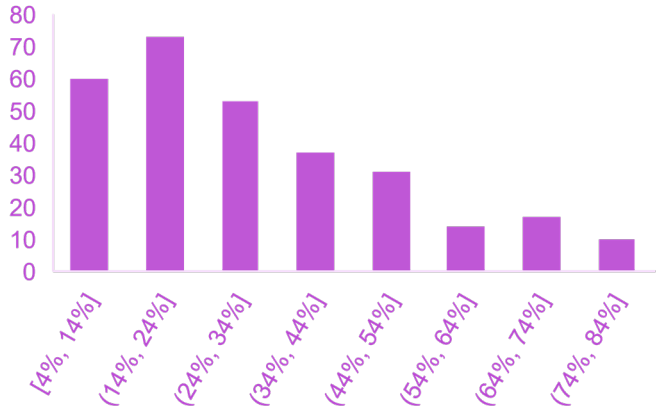




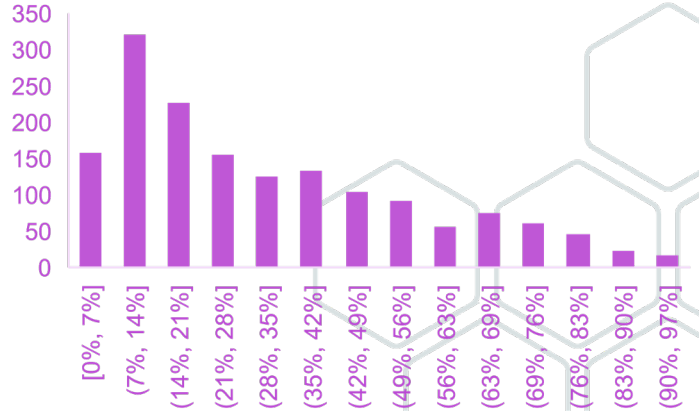
MSOA %age in the private rented sector



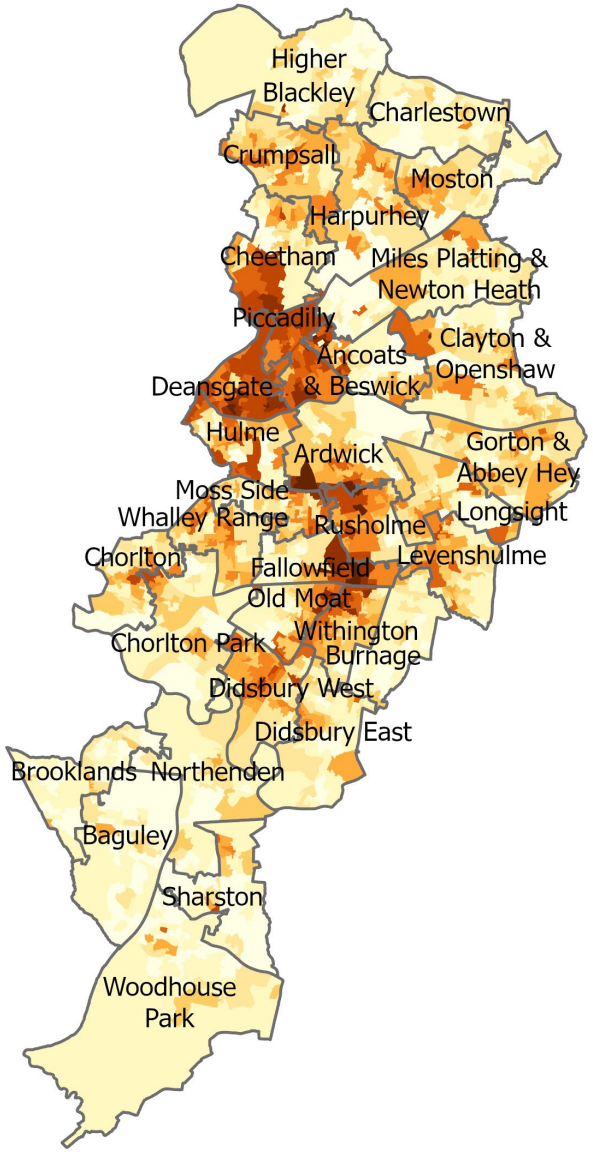
LSOA %age in the private rented sector

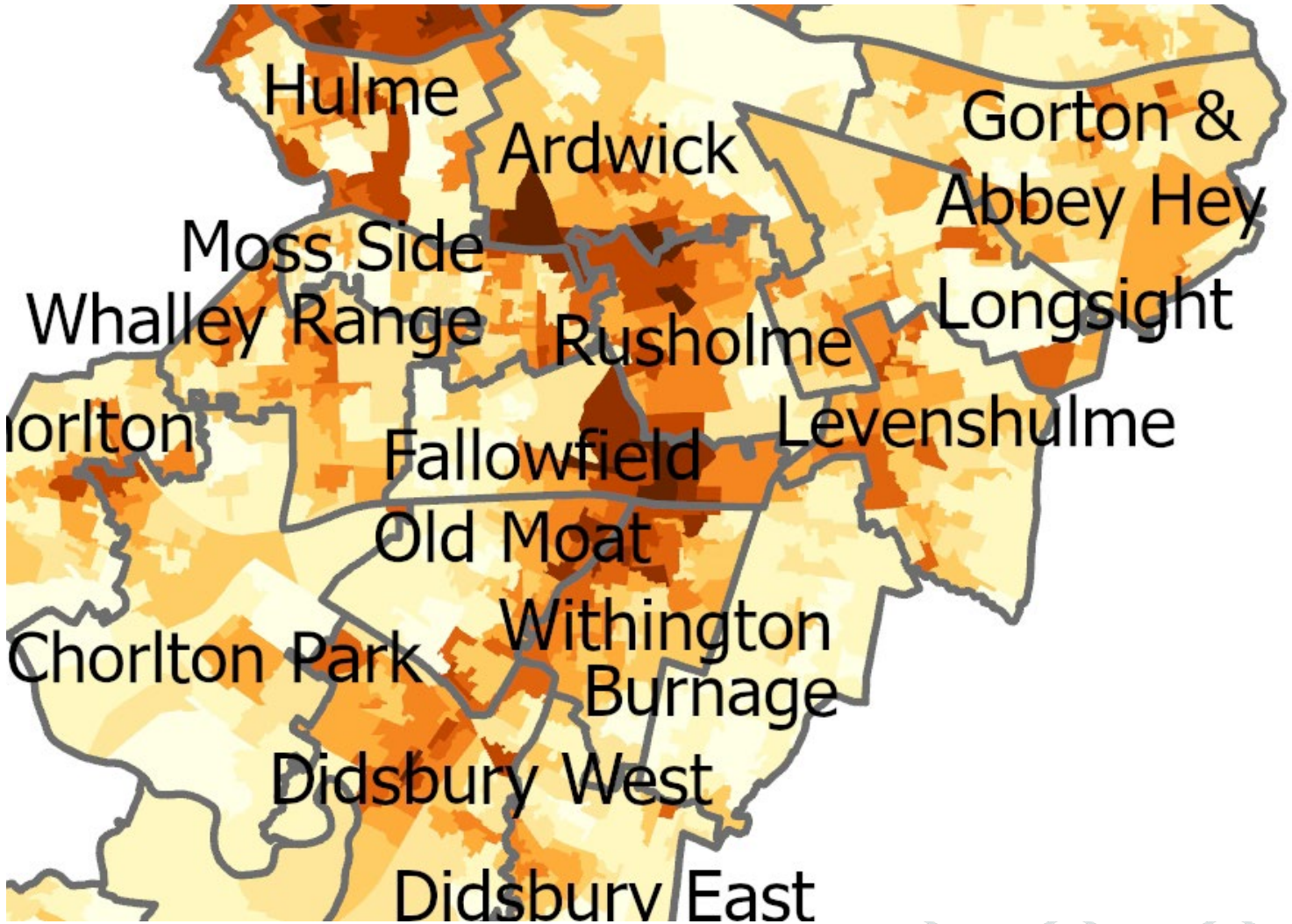


OA %age in private rented sector



Visualising the data





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Potential limitations

Things to consider

- Quality assurance processes (October 2022) – particularly the estimation methods and possible impact on analysis and reporting
- Statistical disclosure control and impact on detailed data availability
- Impact of Covid-19 on information used for planning purposes (ONS will provide additional guidance alongside release of data and you will be supported by population estimation processes within GLA and ONS)
- Voluntary questions (gender identity, sexual orientation and religion) and non-completion of ‘sensitive’ information

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Accessing data

Ways to access data

Aggregate data

- ONS
- UK Data Service
- Nomis

Boundary data

- UK Data Service
- ONS Open Geography portal

Practical exercise

Have a quick look at the three web sites

ONS – data with geographic query, supporting materials and release calendar

UK Data Service – data, boundaries and supporting materials including explainers

Nomis – data with geographic and category query

Choose one and download data for one of the univariate elements

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Building an area profile

Area profile - tasks

- Define geographical scale e.g. LSOAs in a local authority
- Define variables of interest
- Download and prepare data
- Produce representation(/s)
  - Mapping
  - Statistical summary
  - Tables
  - Charts

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Thank you. Any questions.

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