

User-centric Geographies

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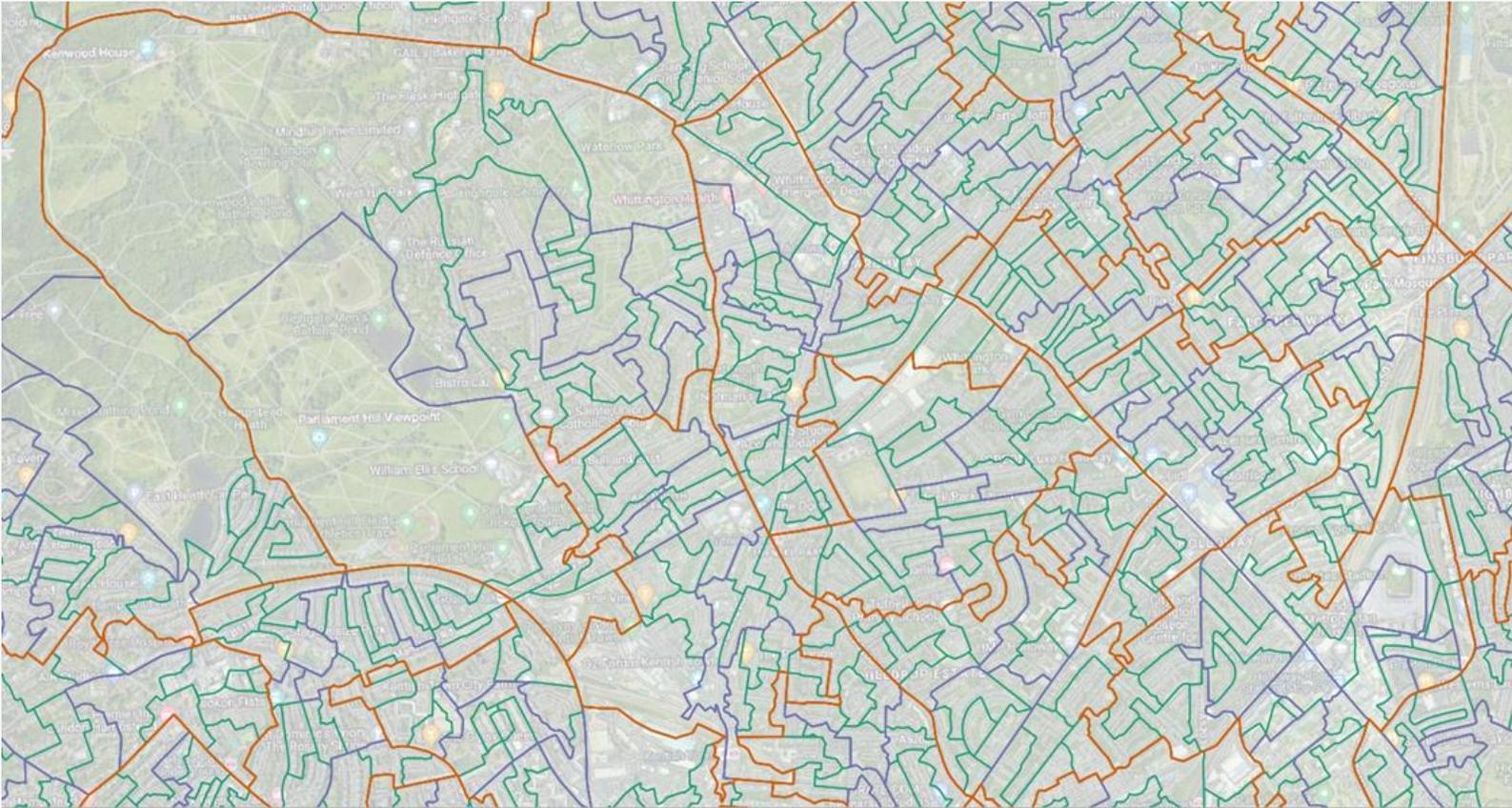
2nd December 2022



Granular data - address



Small area geographies



Minimum thresholds

Thresholds	OAs	LSOAs (*~)	MSOAs (↔)
England	100 people, 40 households	1,000 to 3,000 people	5,000 to 15,000 people 2,000 to 6,000 households
Wales		400 to 1,200 households	
Scotland	50 people, 20 households	500 to 1,000 people	2,500 to 6,000 people
Northern Ireland	100 people, 40 households	1,300 to 2,800 people	

* In Scotland LSOAs are called Data Zones

↔ In Scotland MSOAs are called Intermediate Zone

~ In Northern Ireland they only have a single Super Output Area (SOA) geography instead of LSOAs and MSOAs

2011 average population sizes

Population	OAs	LSOAs (*~)	MSOAs (→)
England	309	1,614	7,806
Wales	305	1,605	7,472
Scotland	114	759	4,140
Northern Ireland	399	2,035	

* In Scotland LSOAs are called Data Zones

→ In Scotland MSOAs are called Intermediate Zone

~ In Northern Ireland they only have a single Super Output Area (SOA) geography instead of LSOAs and MSOAs

Population-weighted centroids



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Latest Releases

Product Name	Product Type	Release Date
ONS UPRN Directory (October 2022) in Great Britain	Zip File	08/11/2022
National Statistics UPRN Lookup (October 2022) in Great Britain	Zip File	31/10/2022
Sub Integrated Care Board Locations and Local Health Boards (July 2022) Map for England and Wales	PDF	26/10/2022
Lower layer Super Output Area (2011) to Lower layer Super Output Area (2021) Exact-fit Lookup for England and Wales	CSV	21/10/2022
Output Area (2021) to Census Ward (2011) Best-fit Lookup for England and Wales	CSV	19/10/2022
Output Area (2011) to Output Area (2021) Exact-fit Lookup for England and Wales	CSV	18/10/2022
Middle layer Super Output Area (2011) to Middle layer Super Output Area (2021) Exact-fit Lookup for England and Wales	CSV	18/10/2022
Local Authority District (2011) to Local Authority District (2021) Lookup for England and Wales	CSV	13/10/2022
Scottish Parliamentary Constituencies (May 2021) Boundaries in Scotland	Shapefile	11/10/2022
National Parks (December 2020) Boundaries in Great Britain	Shapefile	07/10/2022
ONS UPRN Directory (September 2022) in Great Britain	Zip File	07/10/2022

Tweets from @ONSgeography

ONS Geography @ONSgeography · 3h
We always strive to make our visualisations as accessible as possible. We've received some feedback that this map isn't "quite" as colour blind friendly as it could be, so we'll publish a more accessible version alongside our Day 30 Remix!

ONS Geogra... @ONSgeogra... · Nov 20
My favourite...Colour Vision Deficiency accessible palette. The colours in this map were chosen using colorbrewer2.org. At ONS we are always striving to make our dat...
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ONS Geograp... @ONSgeograp... · Nov 20
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Find out more about our accessibility work here: ons.gov.uk/help/accessibi...

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Output Areas (Dec 2021) PWC (Version 2)

Records: 188,880

CSV
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GeoJSON
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Output Areas (Dec 2021) PWC (Version 2)

ONS Geography

REST URL of ArcGIS for INSPIRE Feature DownloadService -
https://dsservices1.arcgis.com/ESMARspQHm9BZ9/arcgis/services/Output_Areas_Dec_2021_PWC_Version_2/WFSServer?service=wfs&request=getcapabilities

REST URL of Feature Access Service -
https://services1.arcgis.com/ESMARspQHm9BZ9/arcgis/rest/services/Output_Areas_Dec_2021_PWC_Version_2_2022/FeatureServer
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Attributes (1)

Name	Type	Action
OA21CD	Text	

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[Open in API Explorer](#)

Government Statistical Service - Strategy

GSS subnational data strategy

Owner: Subnational Statistics and Analysis Division

Approver: National Statistician

Who this is for: Producers and users of subnational data and statistics

Type: Strategy

Contact: Subnational@ons.gov.uk

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- 5. [Ambition 3: Improve the dissemination of subnational statistics](#)
- 6. [Explore Subnational Statistics service](#)
- 7. [Glossary](#)

User-defined flexible areas

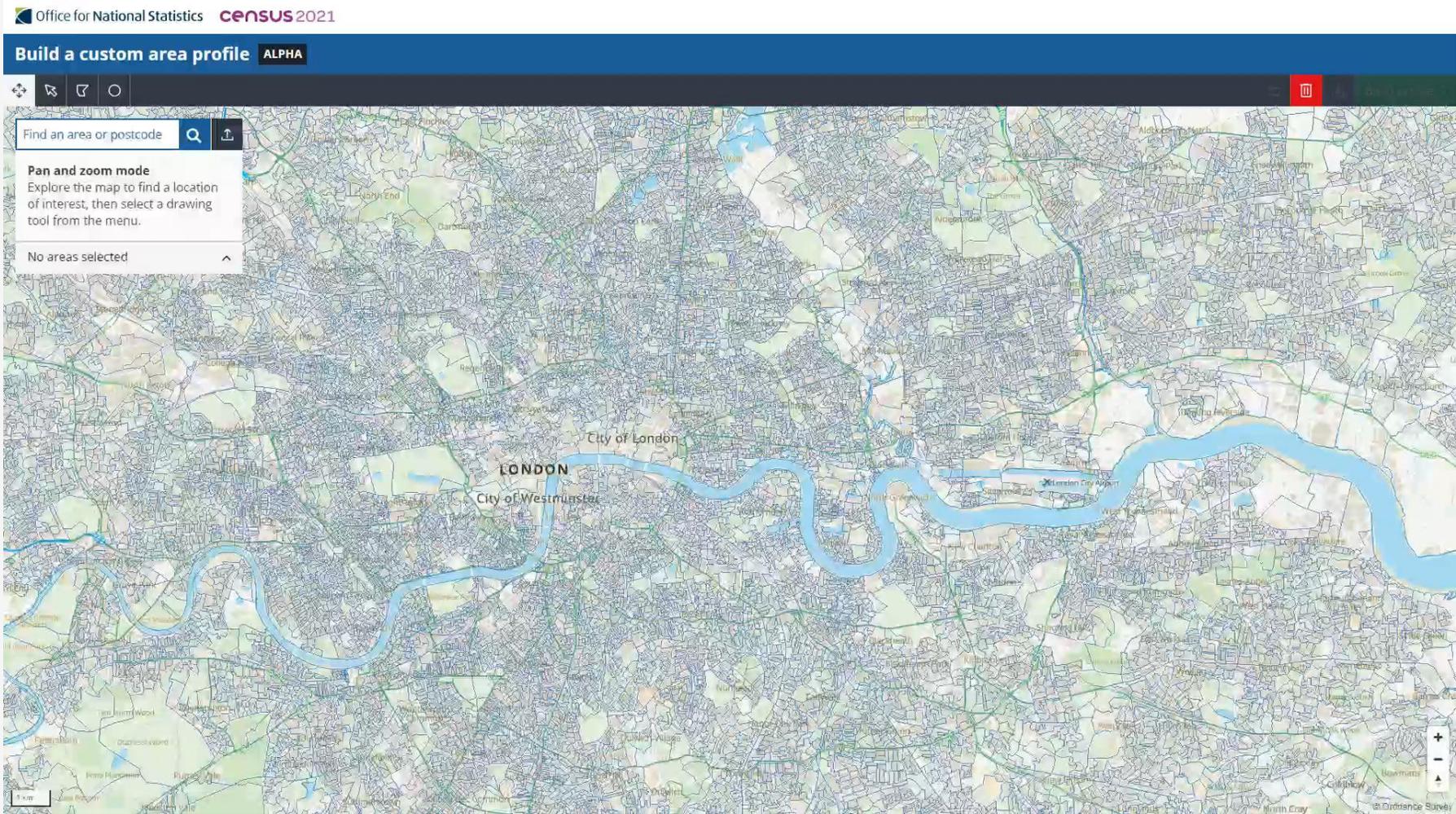
Ambition 1: Produce more timely, granular and harmonised subnational statistics

The demand for subnational statistics is increasing. Statistics at granular levels of geography are essential to understand the issues affecting local areas, ensuring the best evidence base to enable good decision making and monitoring of the impact of policies.

Feedback from local stakeholders indicates a need for more data at lower-level and user-defined flexible areas, to meet planning and policy needs. This includes more timely and accurate estimates of the size of the population broken down by demographics for small, local areas, and small area statistics that can help them to understand relationships between the outcomes people experience, such as their health, education or job, and their characteristics, for example their ethnicity or disability.

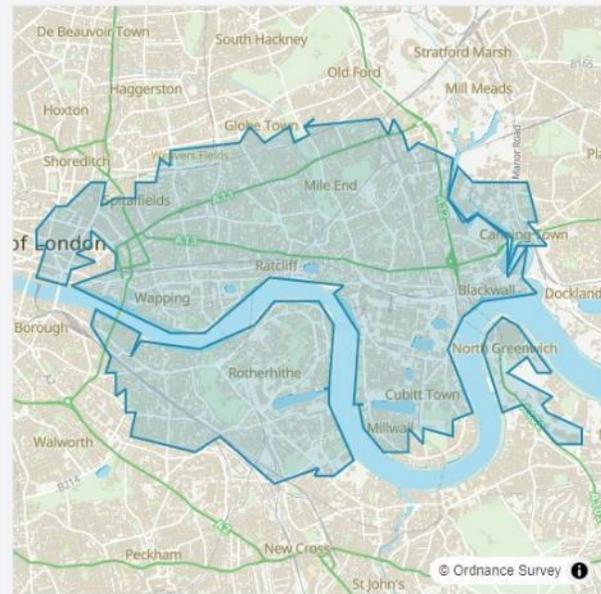
The case study on the Office for National Statistics (ONS) Health Index describes how a new experimental statistic has been created to provide a single value to measure health for each local authority in England that can be tracked over time and compared between different areas.

What are we doing in ONS?



Build a custom area profile ALPHA[< Edit area](#)**Name your area****Profile preview****Area Name****Area Profiles** Include Map**Select topics**

- Hours worked
- Total Population
- Age profile
- Economic activity
- Highest qualification
- Housing tenure

[Show 7 more](#)**Area map****Population****14,874****56,075,912** in England and Wales**Hours worked**

Area Name

|(England and Wales)

15 hours or less **7%** (10%)16 to 30 hours **15%** (20%)31 to 48 hours **61%** (58%)49 or more hours **18%** (14%)

Source: Census 2011 data. Office for National Statistics | Build a custom area profile

[Show embed code](#)[Download PNG](#)[Download Data](#)

Considerations.....

- Top-down data granularity
- Educating users
- Defining the scope of work
- Variability in small area geographies globally



Three concepts.....

- Geography Products (Small Area Estimation/Geographies, Population Weighted Centroids)
- User Demand / Policy (Demand for disaggregated data)
- Technical (Dashboards, Select & build technology)

User-defined flexible areas

Ambition 1: Produce more timely, granular and harmonised subnational statistics

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What should the Expert Group do?

Building the Team
Leadership
Task Team Members
.....
.....

Grounding the Theory (Geography Products, Use-Demand Policy, Technical)
A <u>globally agreed</u> definitions of User-Centric Geographies
Methodologies that <u>ensure</u> privacy and confidentiality
Implementing “Common Geographies”
Position Paper on User Centric Geographies

Guidance
National Examples
Concerns
.....
.....

**Thank you
Questions?**

