cyfrifiad census 2021

An Overview of Census 2021 Outputs

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Census 2021 Outputs and Dissemination

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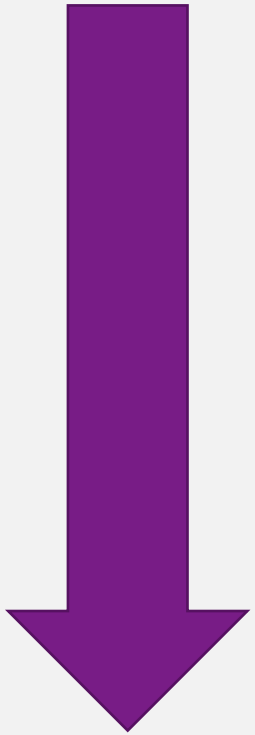
A new flexible, timely and accessible approach to Census 2021 outputs

Flexible: A wider range of outputs to meet the needs of a greater range of users. More control for users to create own outputs.

Timely: We aim to make outputs available sooner than for the 2011 Census.

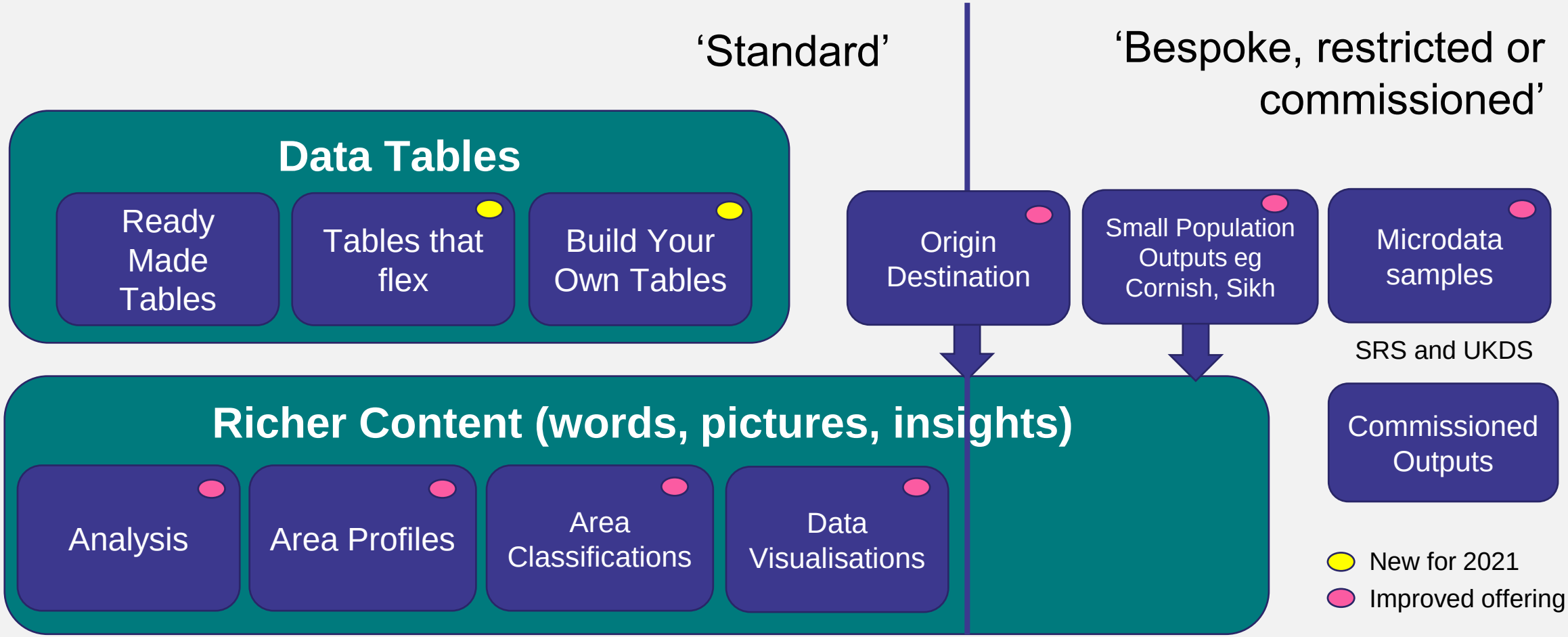
Accessible: Available in ways that suit users needs, with supporting information to enable understanding of the data.

Comparison of Census outputs release: 2011 & 2021



Time after Census Day	2011 Releases	2021 Plans
+1 Year	*Census data still being processed*	First Outputs, March 2022
+1.5 Years	First Outputs, July 2012	⋮
+2 Years	All Quick Statistics, March 2013	Last Outputs, March 2023
+2.5 Years	All Key Statistics, July 2013	Main area for improvement compared to 2011
+3 Years	Most standard outputs, May 2014	
+3.5 Years	All Microdata Products, Nov 2014	
+4 Years	Last Outputs, March 2015	

Product Overview



Metadata provided to support these products

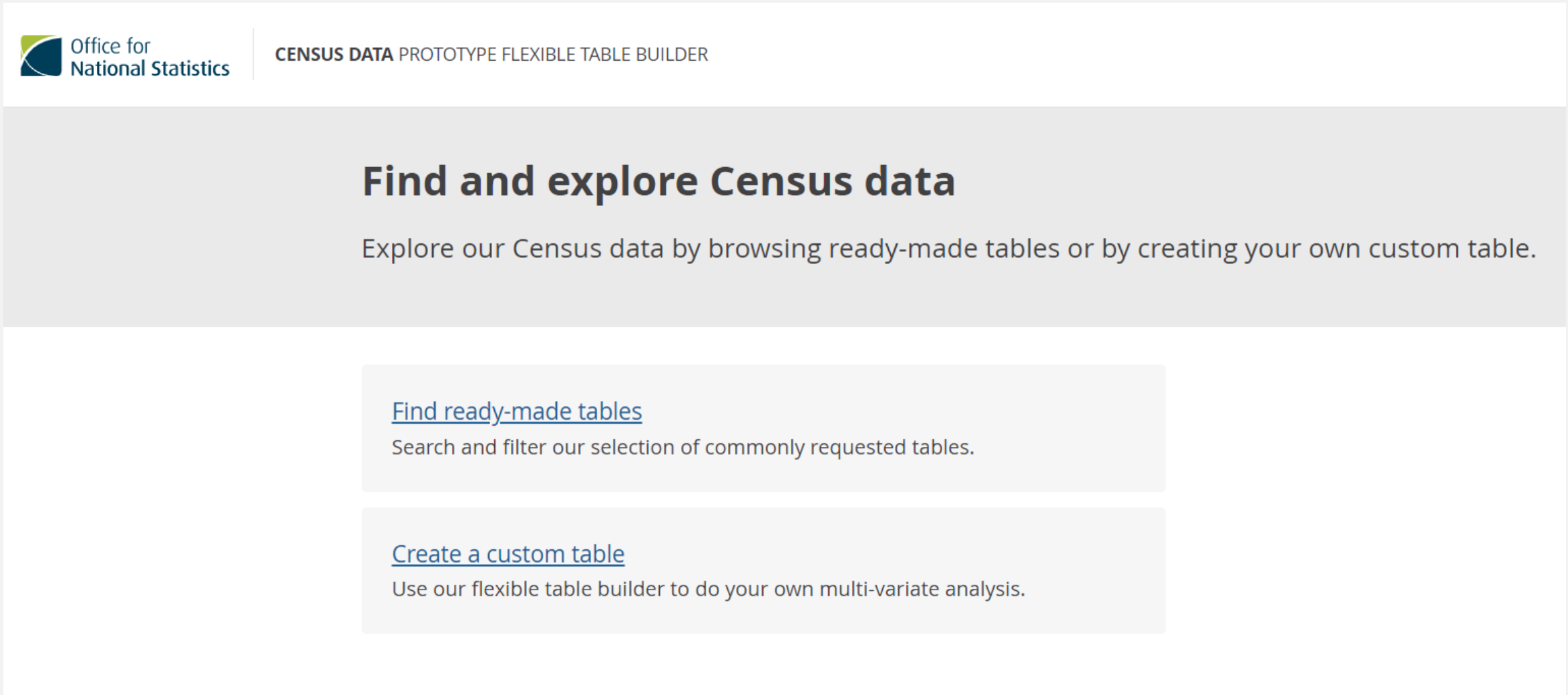
Ready made tables

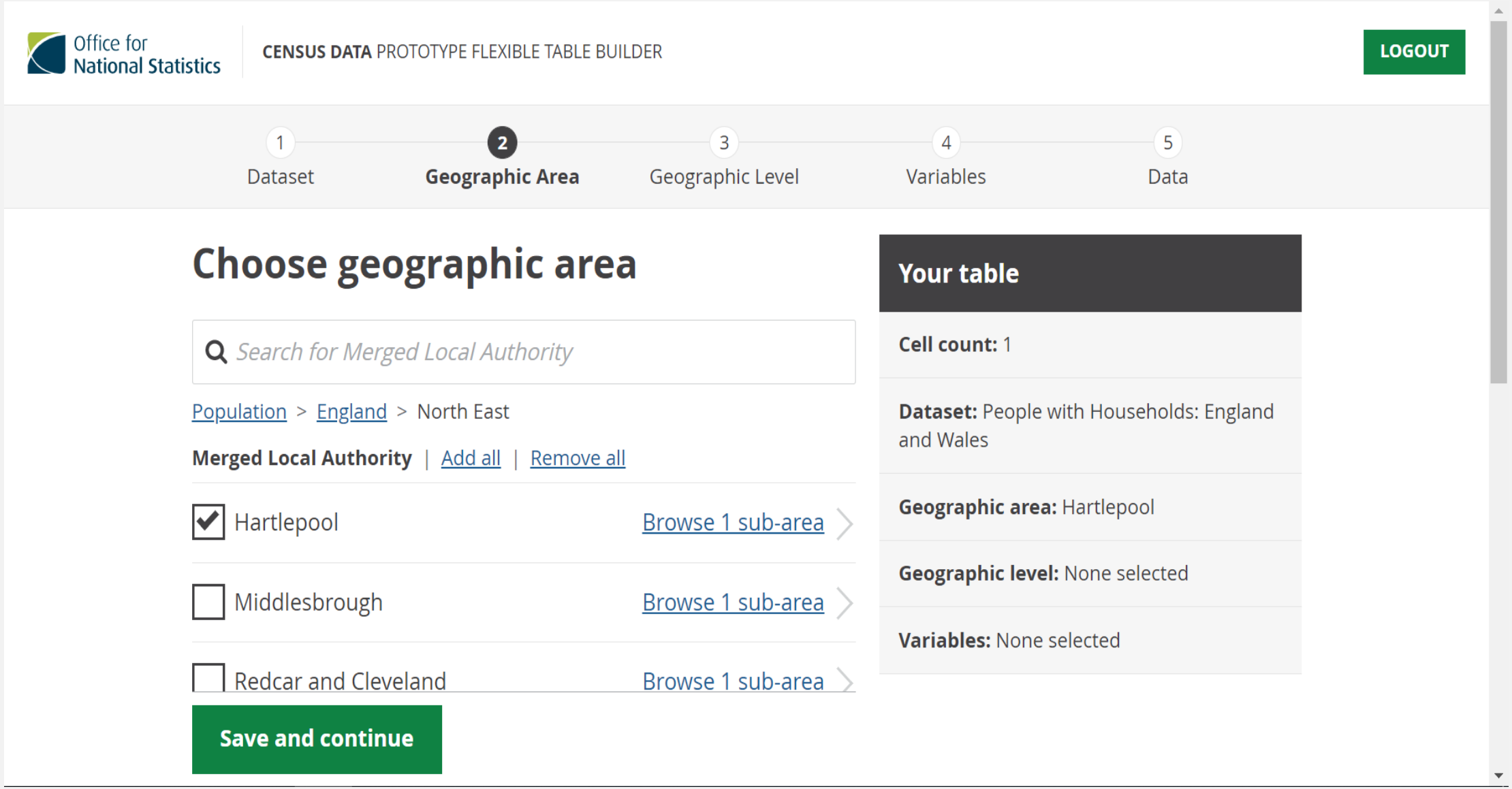
- Traditionally these contain single variable and cross-classifications of multiple variables.
- Planning to make these tables available across all geographic areas a particular level, that meet our disclosure control requirements (i.e. ‘blanket’ coverage).
- Currently proposing a set based around the Local Characteristic Tables, Key Statistics and Quick Statistics, similar to what was produced in 2011.
- We’ll consult on them to agree table specifications.

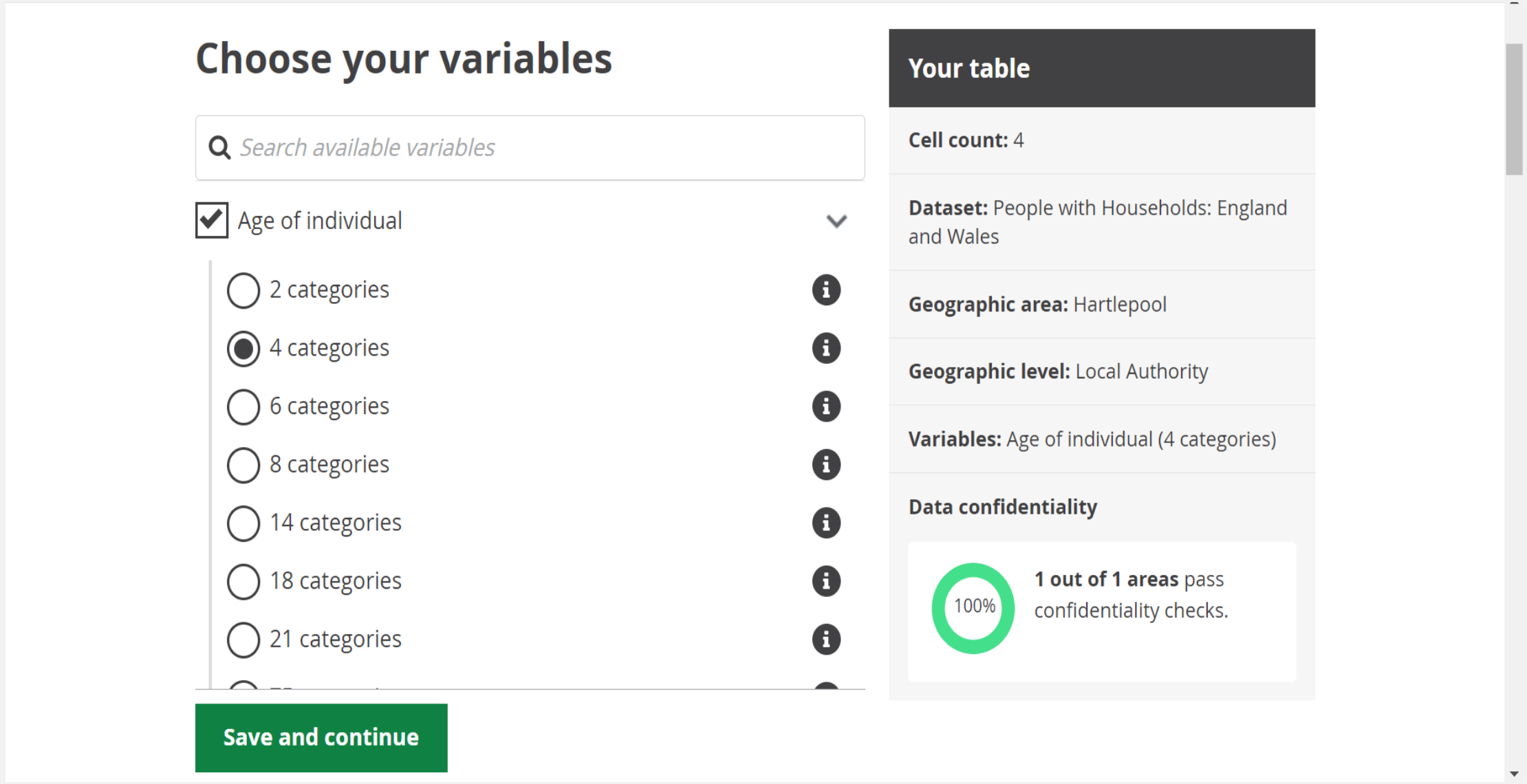
Build Your Own Tables

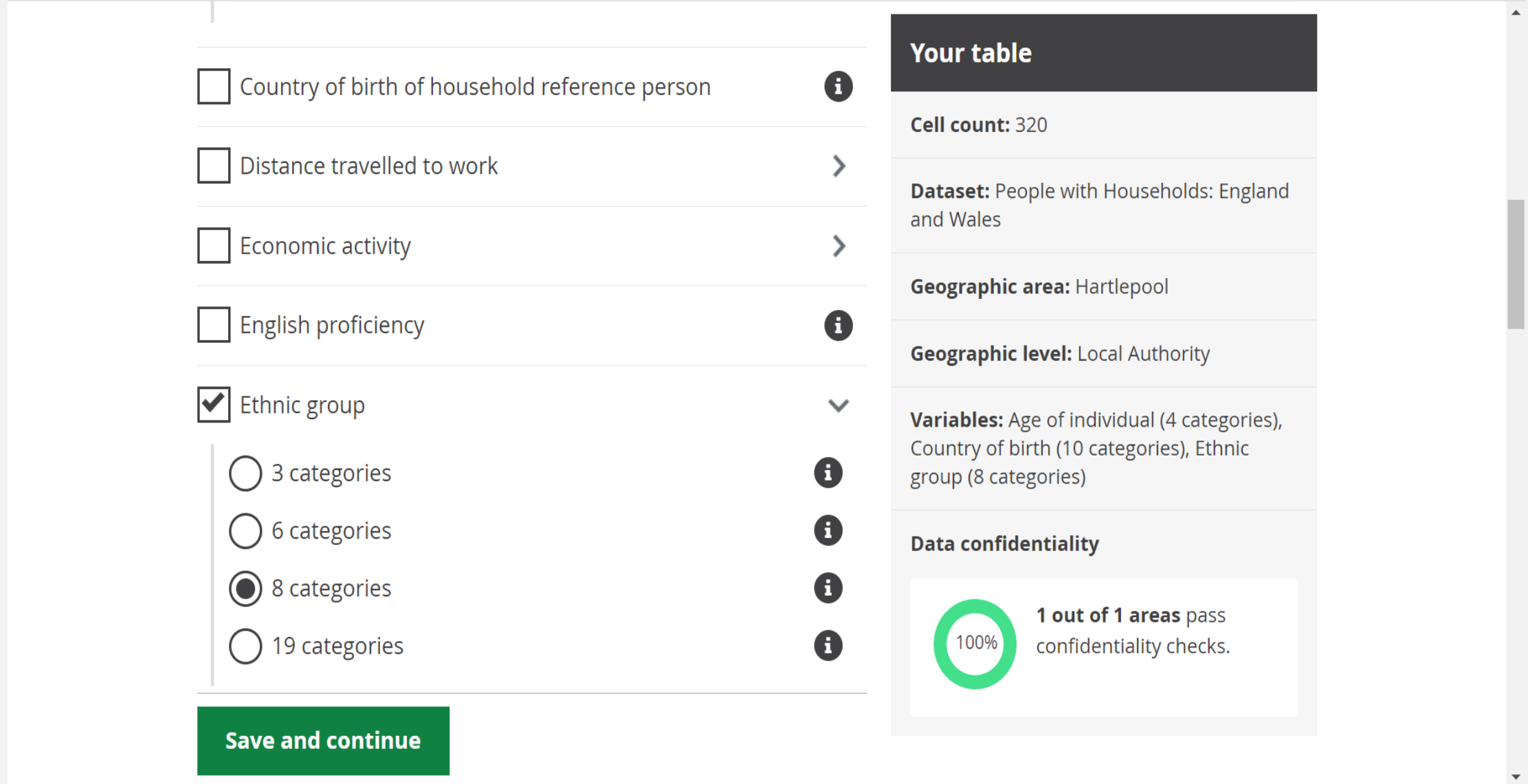
- Users to request their own combinations of variables to produce datasets that suit their particular needs.
- The tool builds tables very quickly and applies disclosure control methods and checks automatically.
- Those checks determine the areas that the requested table can be made available for – and tables for a ‘patchwork’ of areas can be produced.

Build Your Own Table Prototype



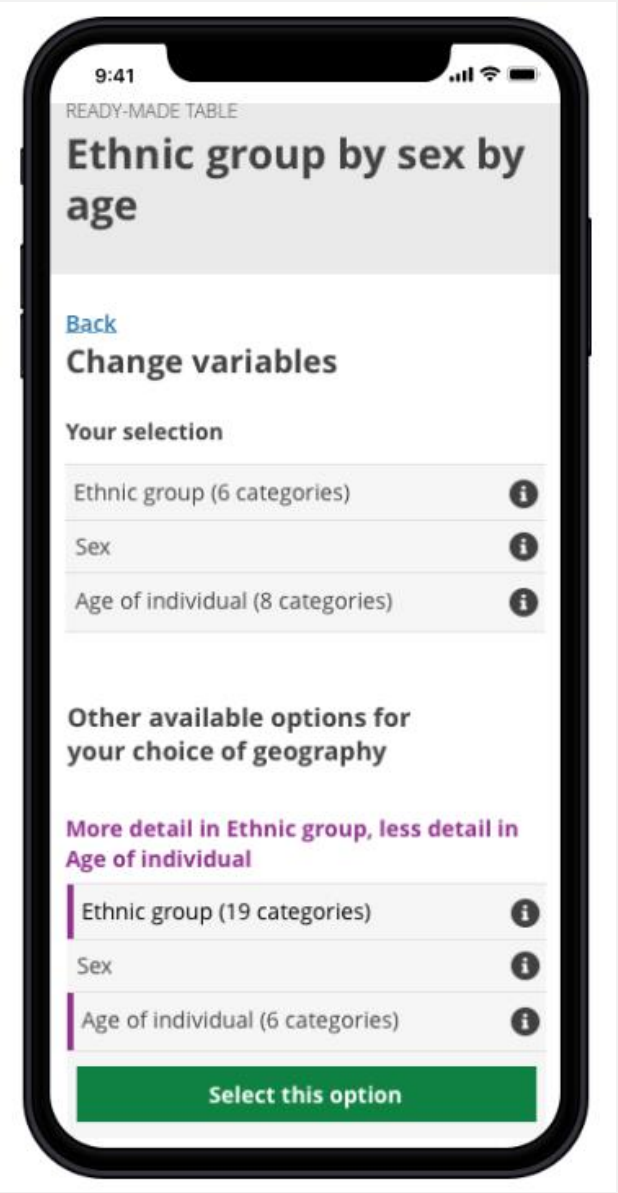

Office for National Statistics
CENSUS DATA PROTOTYPE FLEXIBLE TABLE BUILDER
LOGOUT
1 Dataset
2 Geographic Area
3 Geographic Level
4 Variables
5 Data
Choose geographic area
Search for Merged Local Authority
Population > England > North East
Merged Local Authority | Add all | Remove all
Hartlepool
Browse 1 sub-area
Middlesbrough
Browse 1 sub-area
Redcar and Cleveland
Browse 1 sub-area
Save and continue
Your table
Cell count: 1
Dataset: People with Households: England and Wales
Geographic area: Hartlepool
Geographic level: None selected
Variables: None selected


Choose your variables
Search available variables
Age of individual
2 categories
4 categories
6 categories
8 categories
14 categories
18 categories
21 categories
Save and continue
Your table
Cell count: 4
Dataset: People with Households: England and Wales
Geographic area: Hartlepool
Geographic level: Local Authority
Variables: Age of individual (4 categories)
Data confidentiality
100%
1 out of 1 areas pass confidentiality checks.


Country of birth of household reference person
Distance travelled to work
Economic activity
English proficiency
Ethnic group
3 categories
6 categories
8 categories
19 categories
Save and continue
Your table
Cell count: 320
Dataset: People with Households: England and Wales
Geographic area: Hartlepool
Geographic level: Local Authority
Variables: Age of individual (4 categories), Country of birth (10 categories), Ethnic group (8 categories)
Data confidentiality
100%
1 out of 1 areas pass confidentiality checks.

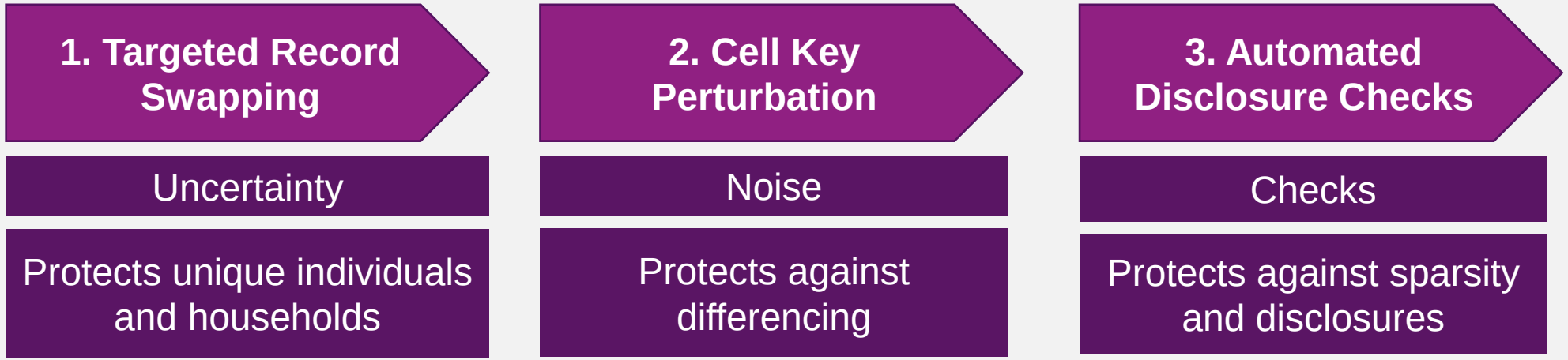
Tables that flex

- This is more conceptual and not yet proven or developed.
- The concept enables users to ‘flex’ a ready-made table
  (for example to be able to increase the level of detail of a variable in that table).
- We are particularly keen on user feedback on this concept.



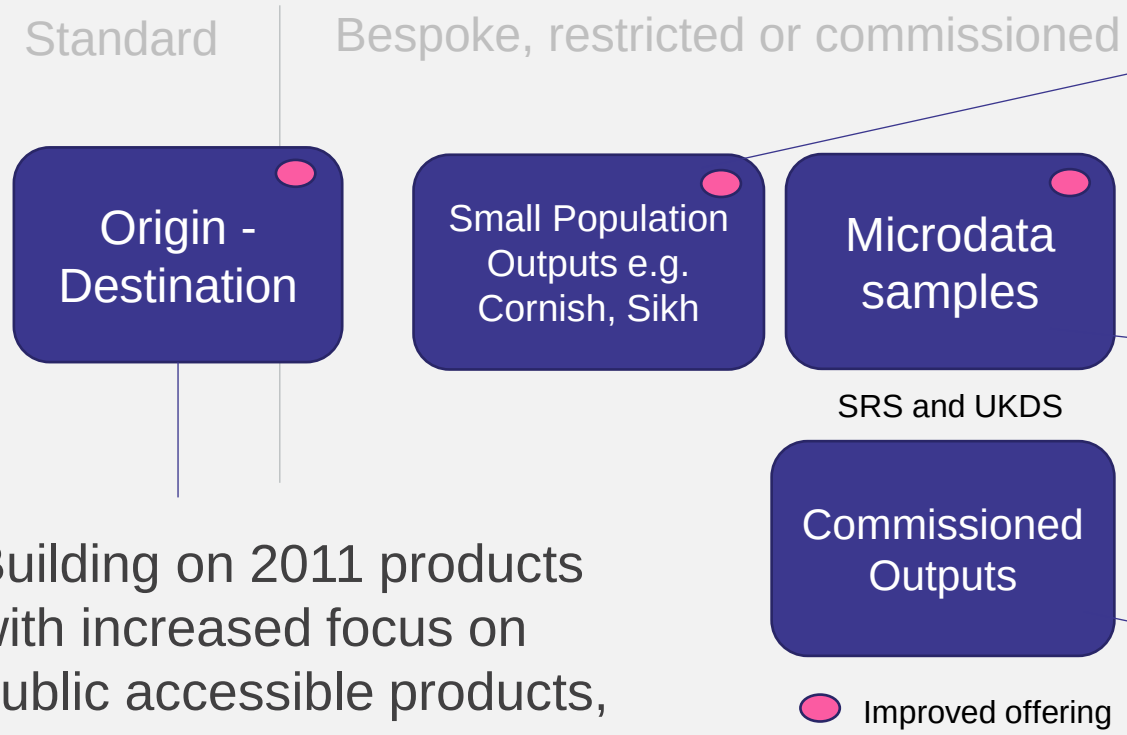
Statistical Disclosure Control

- A multi-layered approach to statistical disclosure control will enable quicker provision of flexible and confidential outputs, using a patchwork approach in areas where the data supports that level of detail.



- The ‘cost’ is that there are small differences in tables (inconsistent totals).

‘Bespoke, restricted or commissioned’



Building on 2011 products with increased focus on public accessible products, as well as the more detailed data tables.

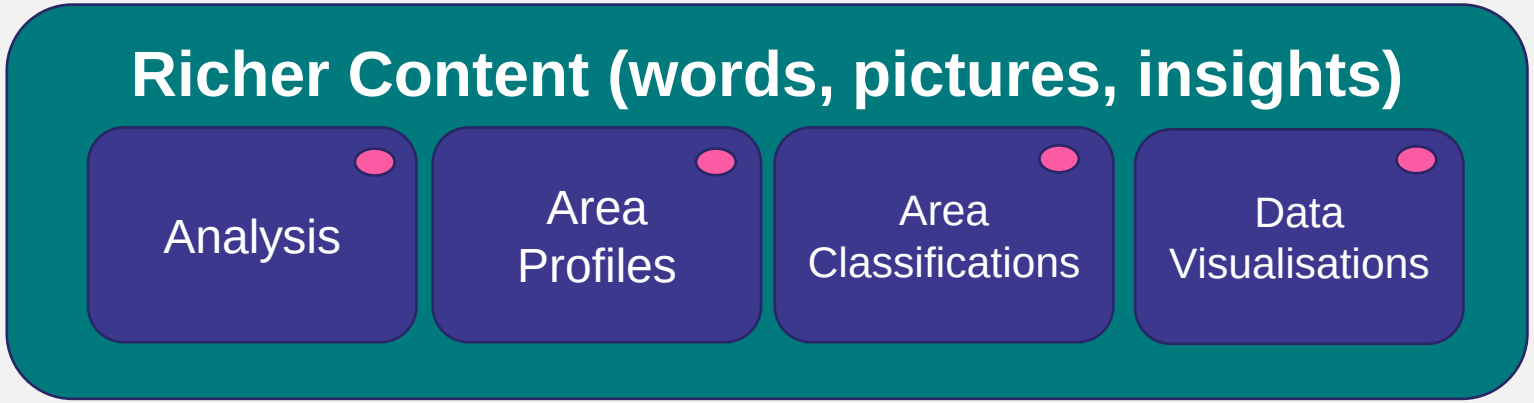
Building on [set of tables produced from the 2011 Census] and keen to engage with stakeholders to understand needs and design suitable products.

Plans are similar to 2011 with the addition of a safeguarded household microdata file and provision in IPUMS format.

Continuation of existing service for commissioning of Census outputs not already made publicly available.

Richer content

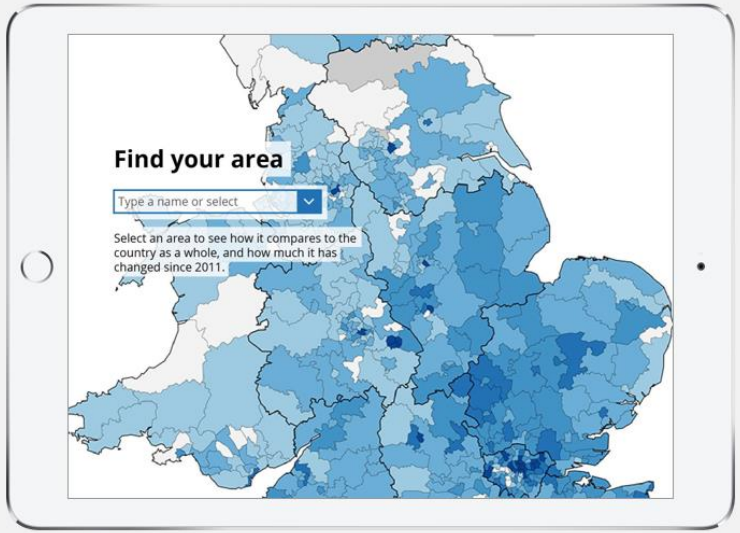
- Arguably, even more opportunities for providing more value to existing and new users through new and innovative products.
- Exploring changes both in products that could be provided and also how they can be created.



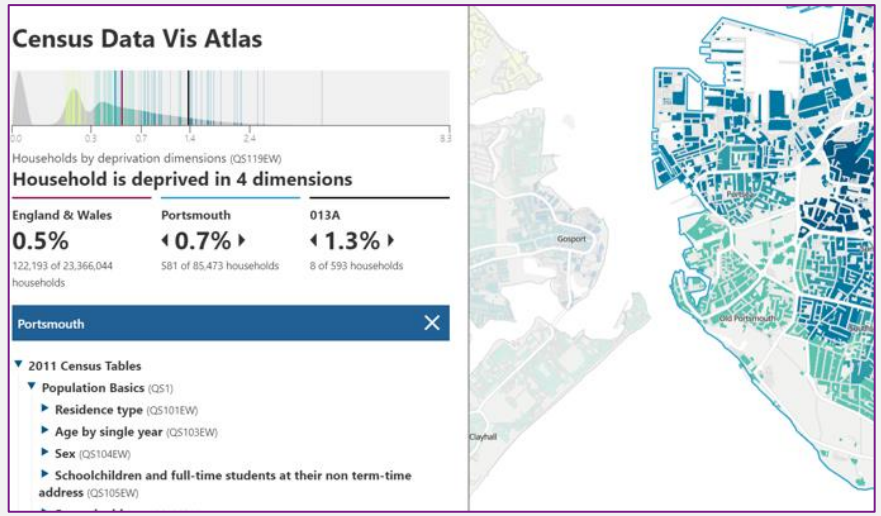
Data visualisation prototypes

Here are a few examples of prototypes the team are developing to help users access, visualise and interpret Census 2021 data.

[User Defined Areas]



[Scrolly Telling]



[Census Data Vis Atlas]

Challenges and opportunities (1)

Likely rate of change in some characteristics from March 2021

- Taking the quality snapshot, and providing to users as data to be used for planning and informing decisions in 2022, 2023 and beyond
- How we provide data to describe change over time, that relates back to and utilises that 2021 Census data – adding more relevant and timely data where required
- The work already underway (2023 recommendation and use of Admin data) gives us some opportunities and possibilities that wouldn't have existed before
- In some areas, it is likely to require other additional data sources to be combined with census data to provide a complete picture (e.g. Travel to Work)
- We'll be sharing thoughts and seeking user views on this as part of the forthcoming Census Outputs Consultation

Challenges and Opportunities (2)

UK data – with Scotland Census moved to 2022

- Timing issue in availability of UK data, but also a question of what is appropriate to draw together from 2 different reference periods (particularly with rate of change expected in some characteristics)
- Impacts to wider UK Population Statistics (particularly around the neatness of updates based on Census information)
- Some UK Outputs are likely to be possible, similar to those produced in 2011, but others (such as UK level Origin-Destination data) are likely to require a re-think about what can be produced to meet users needs
- UK Data User Working Group set up to help us work through the process of determining what outputs can be produced to meet users needs
- Work continues across the 3 Census offices, to harmonise as much as possible

Outputs Consultation

- The Census 2021 Outputs consultation will take place in Spring/Summer
- The scope of the consultation will primarily focus on the new and changing aspects of the Outputs to be made available from the Census.
  - The shape of our outputs and analysis release plans
  - Impact of the Coronavirus for particular outputs
  - Impact of Scotland's Census move on UK data outputs
  - Proposals for new or changed output classifications, small populations and data table descriptions

Key Dates

Date	Activity
21 March 2021	Census day in England and Wales
Spring/Summer 2021	Formal consultation on Census 2021 outputs
Autumn/Winter 2021	Publication of Outputs Prospectus (incl. indicative release timetable)
March 2022*	Census First Release
March 2022* to March 2023*	Release window of main Census 2021 outputs (England & Wales)
March 2023*	Completion of main Census 2021 outputs (England & Wales)
End 2023	Recommendation on the future of the Census and Population Statistics
Late 2023/ early 2024	Release of UK Census outputs

* Target dates

Useful links

- Census 2021 Outputs webpages
- Register for ‘2021 Census outputs’ updates via GovDelivery
- Take part in Census 2021 outputs user research by emailing: census.outputs@ons.gov.uk

Thank you