

# Outputs update

September 2011

# Agenda

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- Consultation
- Release plans : First release and proposed running order for outputs
- Approach to dissemination
- Data feeds work
- Census analysis

# Consultation

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- Two distinct phases of consultation on main statistical outputs
  - 14 December 2009 to 26 March 2010 - assessing user needs based on 2001 Census outputs
  - 7 February 2011 to 28 April 2011 – confirming user requirements and finalising output policies for 2011
- Ongoing direct engagement with key users and user groups
- The consultation has been successful
  - High quality of responses
  - Positive feedback on proposed outputs
  - Feedback from the general public, central and local government, other key users and user groups
  - Report published online 27 July 2011
- Remaining targeted consultation on specialist products will be complete by December 2011

# Key findings

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- Broad support for proposed set of outputs for the main statistical residency base
- Minor or no change to 2001 outputs
- Increased level of detail, particularly at lowest levels of geography
  - Formats will be fixed at this geographical level
- Potential at UALA level and above for
  - Greater detail than 2001
  - Themed multi-dimensional datasets
- Over 70 new standard outputs have been designed so far
- Increased number of UK harmonised tables
- No post-tabular disclosure control

# Output policy - Geography

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- **Output Area maintenance**
  - Developed in 2001 Standard (stable) statistical geography
  - Homogeneous population between 40 to 125 Households.
  - Less than 5% change
  - Building block for all geographies
- **Wards**
  - ONS will provide only best-fit estimates for all administrative geographies, and will comply with the Geography Policy for National Statistics
  - Only exception is National Parks – decision based on quality and user feedback.
  - **Workplace Zones**
  - Based on where people work rather than live
  - Aims to resolve issues from 2001 Census
  - Based on OA's and contiguous at MSOA level
  - Population threshold between 100 workers - Maximum of 625
  - Combining at least 3 postcodes containing no less than 100 workers

# Output policy – Charging, licensing

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- Published products free - Open Government Licence (OGL)
- Commissioned Table Service – Data free, charging based on production and dissemination costs
- Data also available via approved researcher and accessed via VML
- Licence arrangements for SARS SAM being finalised

# Release plans : First release

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- First release July 2012:

Usually resident census population estimates by single year of age and sex for UK

Usually resident census population estimates by five year age bands and sex at regional and local authority level for England and Wales

NRS (Scotland) and NISRA (Northern Ireland) will publish their local authority estimates separately

# First release : Supporting data

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- The LA package will include:
  1. Census population estimates (including numbers of short-term migrants by broad age bands and sex, visitors, students by broad age bands and home and foreign armed forces)
  2. Census Household Estimates (number of occupied households and unoccupied residential addresses - vacant, second residences, visitor households, holiday homes)
  3. A summary of adjustments made to the count of people who returned a census questionnaire



# Release plans: Second release

- Univariate data

Equivalent to 2001 Key Statistics, Univariate and Headcount outputs

KS003: Living arrangements  
2011 Mock Layout

Table population: all people aged 16 and over in households								
Area	All people aged 16 and over in households	Living in a couple		Not living in a couple				
		Married (including registered same-sex civil partnerships)	Co-habiting	Single (never married or registered same-sex civil partnership)	Married (including registered same-sex civil partnerships)	Separated (including those who are still legally married or in a same-sex civil partnership)	Divorced or formerly in a same-sex civil partnership which is now legally dissolved	Widowed or surviving partner from a same-sex civil partnership

# Release plans: Third release

- Multivariate data  
Equivalent to 2001 CAS and CAS Theme tables

CAS114: NS-SeC by highest level of qualification  
2011 Mock Layout

Table population: all people aged 16 and over							
	All people	No Quals	Level 1	Level 2	Level 3	Level 4	Other
All people							
Higher managerial and professional occupations							
Lower managerial and professional occupations							
Intermediate occupations							
Small employers and own account workers							
Lower supervisory and technical occupations							
Semi-routine occupations							
Routine occupations							
Never worked and long-term unemployed							
Not classified							

# Release plans: Fourth release

- More detailed multivariate data

Equivalent to 2001 Standard, Standard Theme and Armed Forces tables

## S057: Tenure by household composition 2011 Mock Layout

Table population: all households

	All households	One person		One family and no others					Other households				
		Age 65 and over	Other	All age 65 and over	Couple family households			Lone parent family households		With dependent children	All students	All age 65 and over	Other
					No children	With dependent children	All children non-dependent	With dependent children	All children non-dependent				
All households													
Owned													
Shared ownership													
Rented from council													
Other social rented													
Private rented or living rent free													

# Subsequent releases

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- **Migration & Workplace (flows)**
  - Univariate series publicly available
  - Multivariate – similar design to 2001 – Access and Licence arrangements still being finalised
- **Microdata products**
  - Building on 2001 set SARS, SAM, CAMS – sample sizes and content still to be finalised
  - Proposed perturbed SAR, used in conjunction with an analytical service for complex analysis using 100% sample
- **Minority group tables**
  - New to Census
  - Small series of tables based on where minority groups concentrated most
  - Designed using an agreed disclosure population threshold for given geography

# Subsequent releases

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- **Alternative population base tables**

- short-term immigrant population base
- workplace and workday population base
- out-of-term population base
- exploration of a majority-of-time population base

**Dependent upon quality**

- **Flexible multivariate datasets (hypercubes) at local authority level and above**

- **Full outputs prospectus to be published March 2012**

# Approach to dissemination

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- Website Improvement: Key Drivers
- Direction of government policy
- ONS Web Strategy and Census Output Strategy
- Aspirations for a 're-use' community

# New ONS Website

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- The new website delivers the following benefits:

improved search and navigation

- “Ability to find things”

improved access to the underlying data

- “Ability to use those things once found”

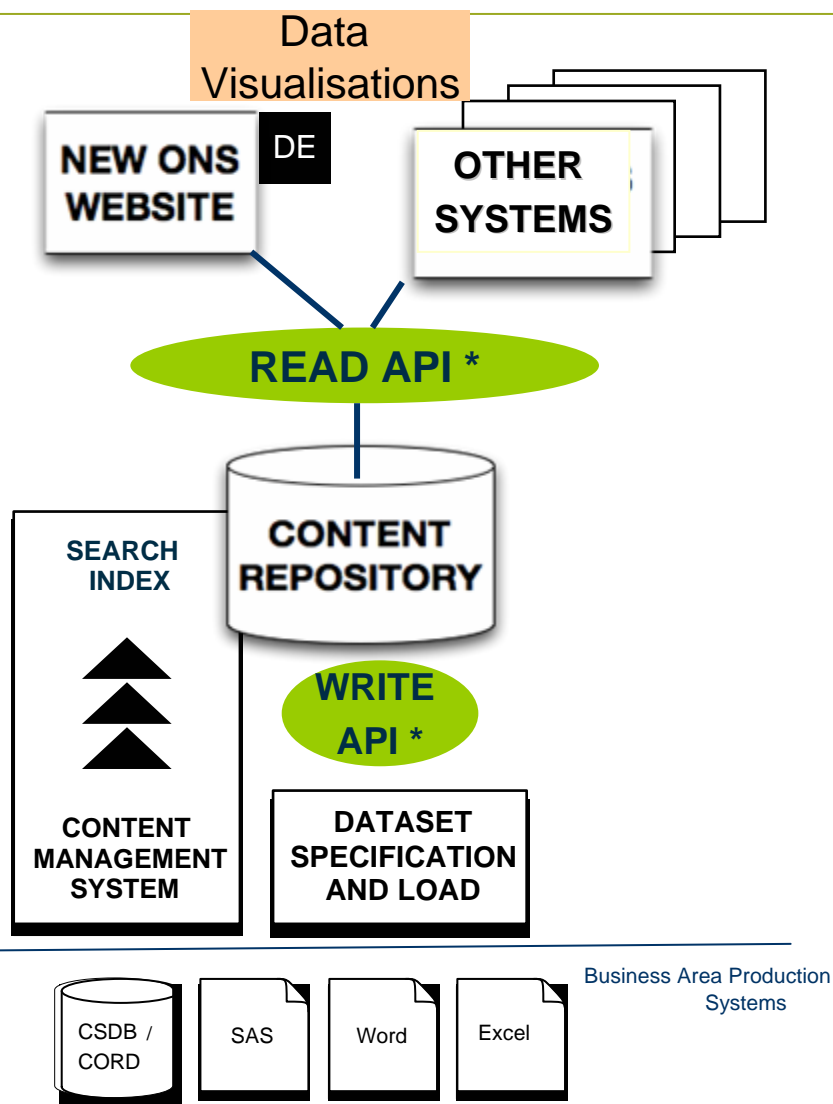
compliance with accessibility standards

- “Ability for all to find and use our content”

timely release of outputs at 9.30am sharp

- “Outputs available to all at time of release”

# Next step: Publishing datasets

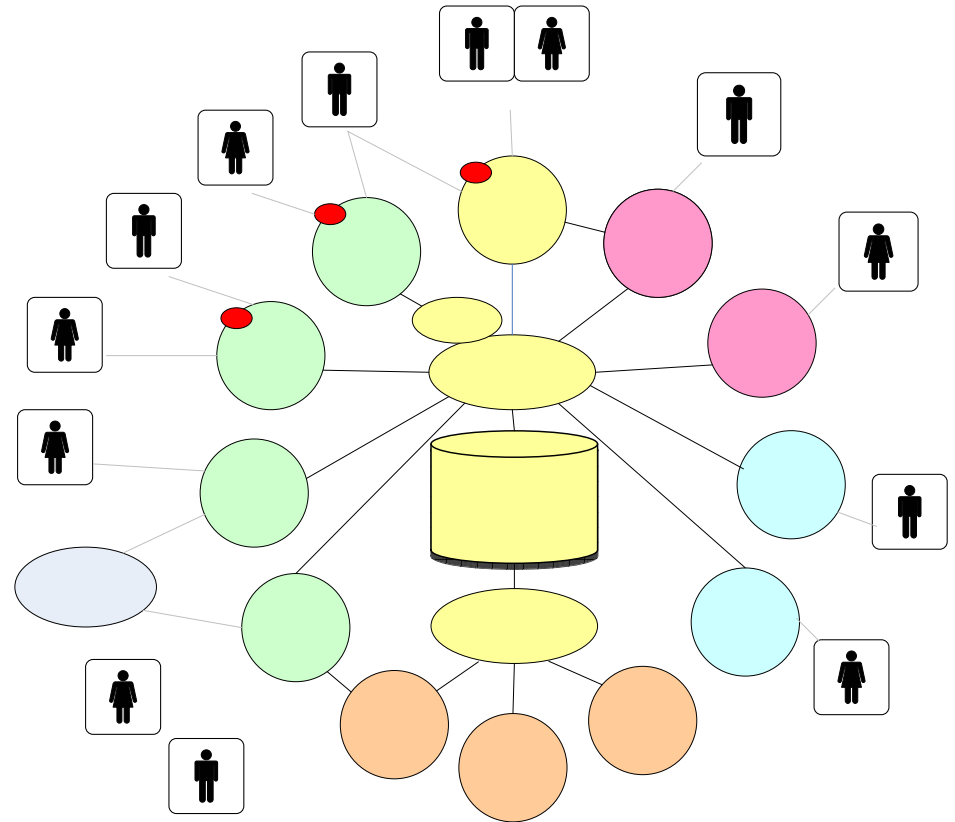


\* API: application programming interface



# Web Data Access Project

- More than a website
- Data Feeds Services
- Opportunities for other systems to programmatically re-use ONS data
- Enabling other systems to re-purpose ONS content and combine with other data for specific audiences/uses



# A “re-use” community

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- Open
- Sharing
- Encouraging
- Enabling

*[Don't have to behave in this way to re-use our data, but we are keen to encourage this type of use]*

*Ordnance Survey example*

# OS Openspace Model



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## Welcome to the OS OpenSpace API

The OS OpenSpace API is free to access and lets developers create amazing web applications and online projects with Ordnance Survey maps.

But OS OpenSpace API is not just for developers.

Although the API uses JavaScript to make web pages more interactive, anyone can create an application by following our sample code and tutorials.

Get Ordnance Survey maps on your website to enhance the service and customer experience.



Example of OS OpenSpace API displaying Ordnance Survey data



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Technical FAQ's		
Tutorials		

# Data Feeds: Work to date

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- Working in partnership with Manchester University to create large and complex test datasets; using 2001 data to replicate 2011
- Launched an “Alpha” API (clone of the API behind the new website) in December 2010
- SASPAC, Manchester University, and NOMIS rapidly built applications to access the test data via the API

# Data Feeds: Application development

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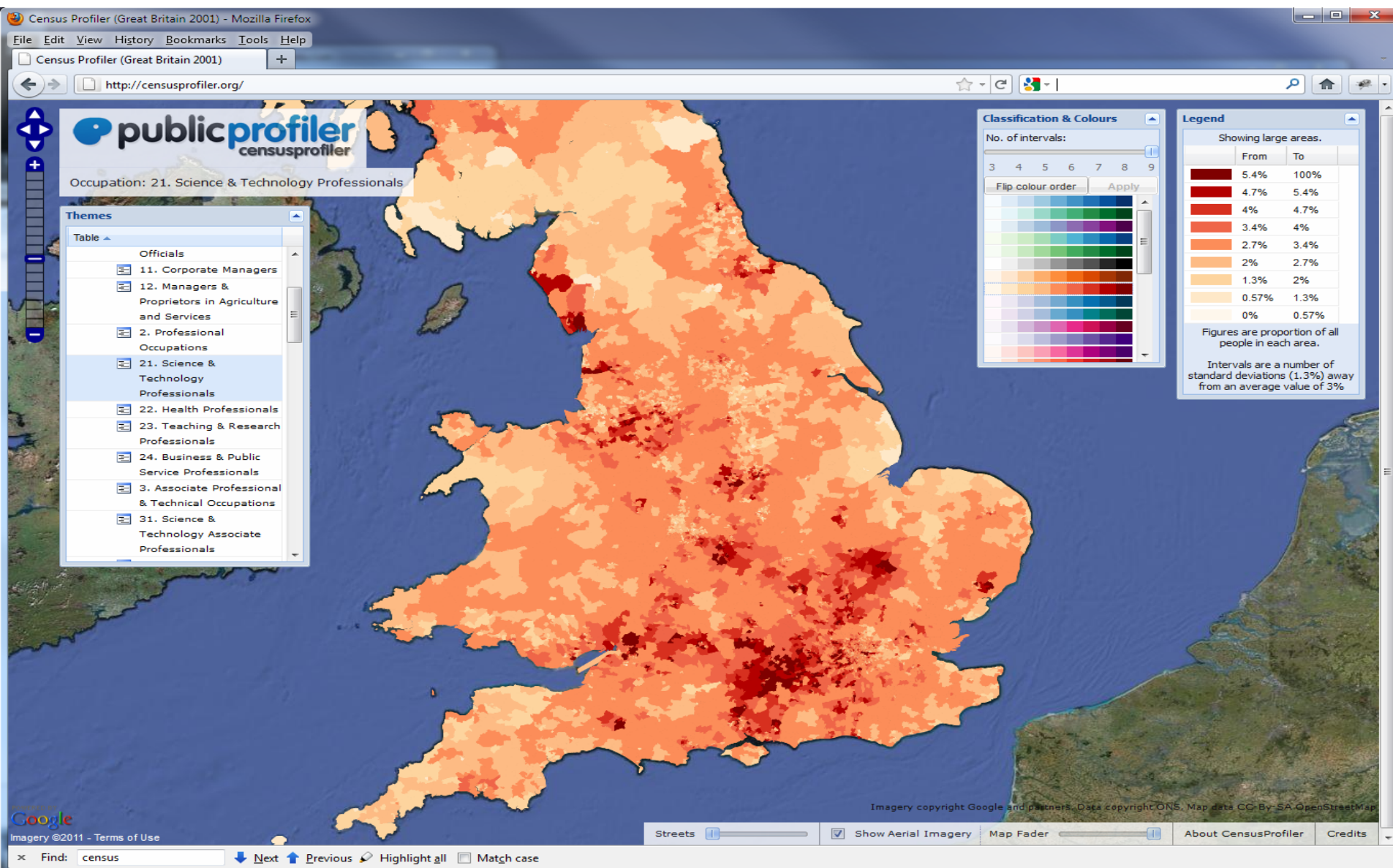
- **Three applications developed December 2010**

NOMIS: Data Picker and Report

SASPAC: Integrating data into desktop software

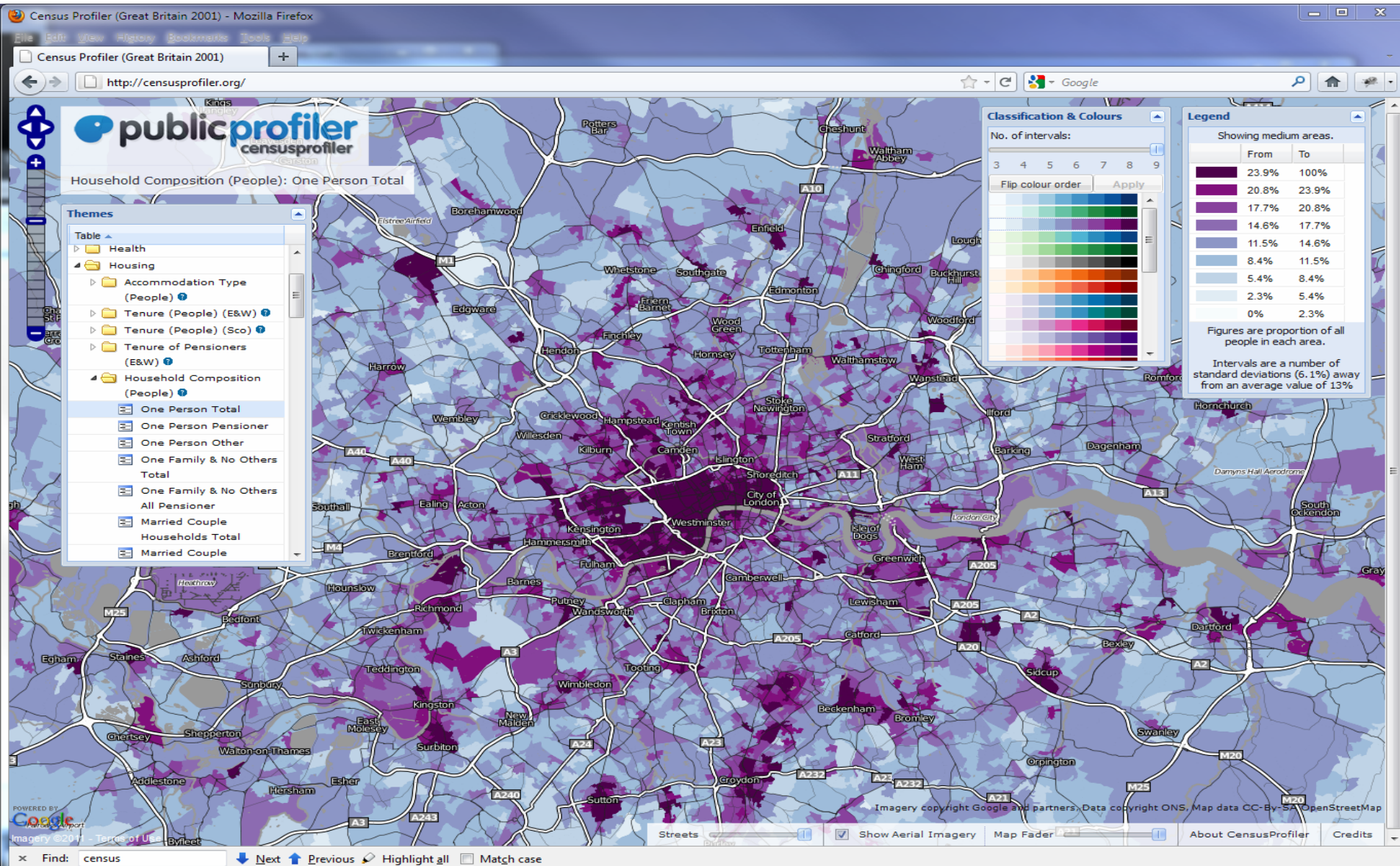
CDU: Visualisation application

# UCL – public profiler – 2001 Census data





# UCL – public profiler – 2001 Census data





# Maptube.org – OAC classification

MapTube Map - Mozilla Firefox

File Edit View History Bookmarks Tools Help

MapTube Map

http://maptube.org/map.aspx?m=ol&s=bBDFGlaFNMJkAFclgwcHAp3DAoQjd

home about login search help casa

Link to this map

MAPTUBO a place to put maps

**The 21 Output Area Classification Groups**

Name	Value
Output Area	00CTFE0008
GOR Abbreviation	WM
Supergroup	5
Supergroup Description	Constrained by Circumstances
Group	5c
Group description	Public Housing
Subgroup	5c3
Group No	15

**The 21 Output Area Classification Groups**

- 1a - Terraced Blue Collar
- 1b - Younger Blue Collar
- 1c - Older Blue Collar
- 2a - Transient Communities
- 2b - Settled in the City
- 3a - Village Life
- 3b - Agricultural
- 3c - Accessible Countryside
- 4a - Prospering Younger Families
- 4b - Prospering Older Families
- 4c - Prospering Semis
- 4d - Thriving Suburbs
- 5a - Senior Communities
- 5b - Older Workers
- 5c - Public Housing
- 6a - Settled Households
- 6b - Least Divergent
- 6c - Young Families in Terraced Homes
- 6d - Aspiring Households
- 7a - Asian Communities
- 7b - Afro-Caribbean Communities

[more information](#)

Data CC-BY-SA by OpenStreetMap

-1.72623, 52.47734

Find: census

Next Previous Highlight all Match case



# Current and future work

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- More datasets from Manchester University; based on the indicative 2011 table layouts
- An “Alpha+” API launched this month with more data
- Web Data Access Improvement Project to deliver a Beta API in April 2012
- A fully operating Data Feeds Service prior to release of 2012 Census data

# Census analysis and exploitation

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- Census analysis programme
  - Multi-source analysis
- Exploiting website tools
  - Data Explorer and API
- Research capability
  - Longitudinal Study

# Summary: New developments

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- Over 70 new tables
- No post-tabular disclosure control
- Flexible multi-dimensional datasets at LA level and above
- Increased number of UK harmonised tables
- Proposals for
  - Perturbed SARS supported by an analytical service
  - New tables on minority group populations
- Analytical programme
- Access to datasets through an open API to encourage use and re-use of census data
- More data will be available free through an open Govt licence, ability to use data freely, flexibility in how you use the data and in building your own tables

# Summary : Key dates

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- Targeted consultations Oct/Nov 2011
  - Analytical products
  - Minority populations
  - Flow data (origin/destination)
  - Microdata
- Output prospectus in March 2012
- First results in July 2012
- Subsequent release of single variable and multi-variable datasets and tables

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# Questions?