Outputs update

September 2011

Agenda

- Consultation

- Release plans : First release and proposed running order for outputs

- Approach to dissemination

- Data feeds work

- Census analysis

Consultation

- 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

- 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

- **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

- 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

- 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

- 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 house-holds	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 depend-ent child-ren	All students	All age 65 and over	Other
					No child-ren	With depend-ent child-ren	All child-ren non-depend-ent	With depend-ent child-ren	All child-ren non-depend-ent				
All households														
Owned														
Shared ownership														
Rented from council														
Other social rented														
Private rented or living rent free														

Subsequent releases

- **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

- **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

- Website Improvement: Key Drivers

- **Direction of government policy**

- **ONS Web Strategy and Census Output Strategy**

- **Aspirations for a 're-use' community**

New ONS Website

- 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

Data Visualisations

NEW ONS WEBSITE

DE

OTHER SYSTEMS

READ API *

SEARCH INDEX

CONTENT REPOSITORY

WRITE API *

CONTENT MANAGEMENT SYSTEM

DATASET SPECIFICATION AND LOAD
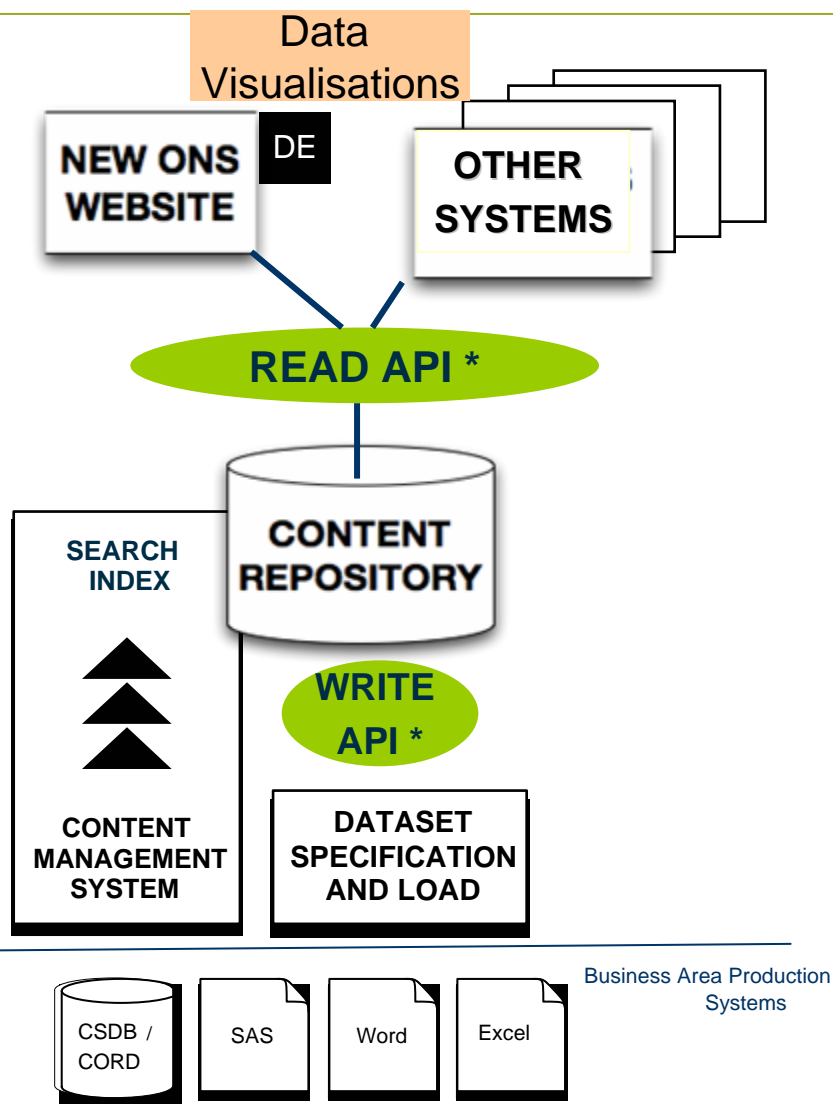
* API: application programming interface

CSDB / CORD

SAS

Word

Excel

Business Area Production Systems

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
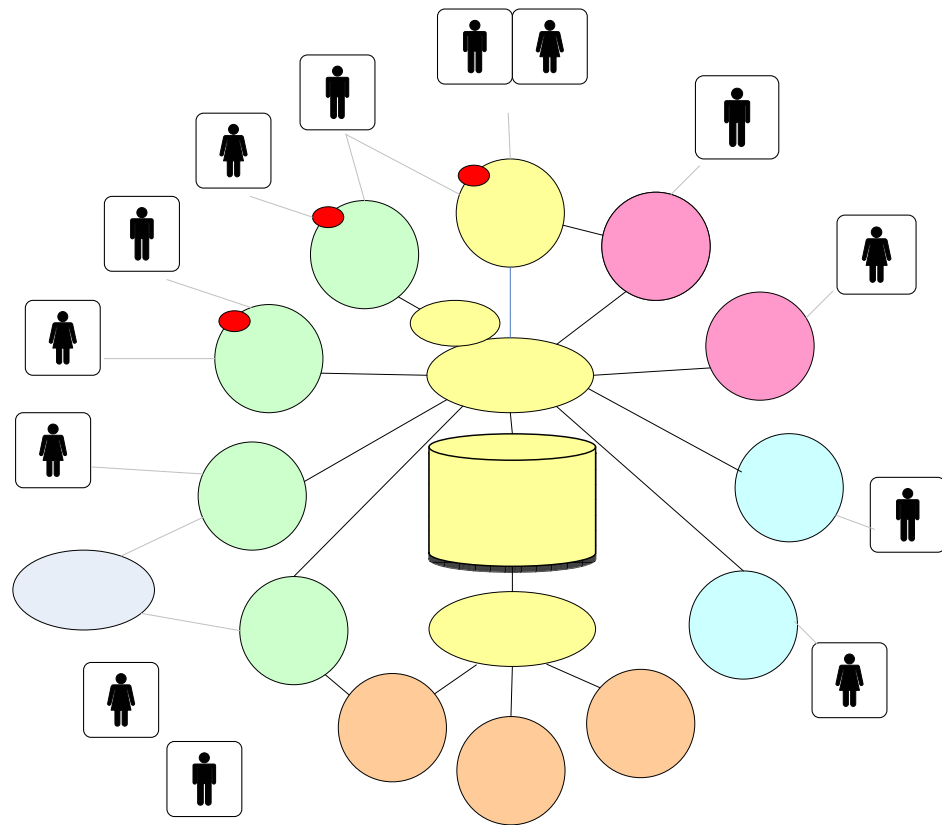
A "re-use" community

- 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

Data Feeds: Work to date

- 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

- **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
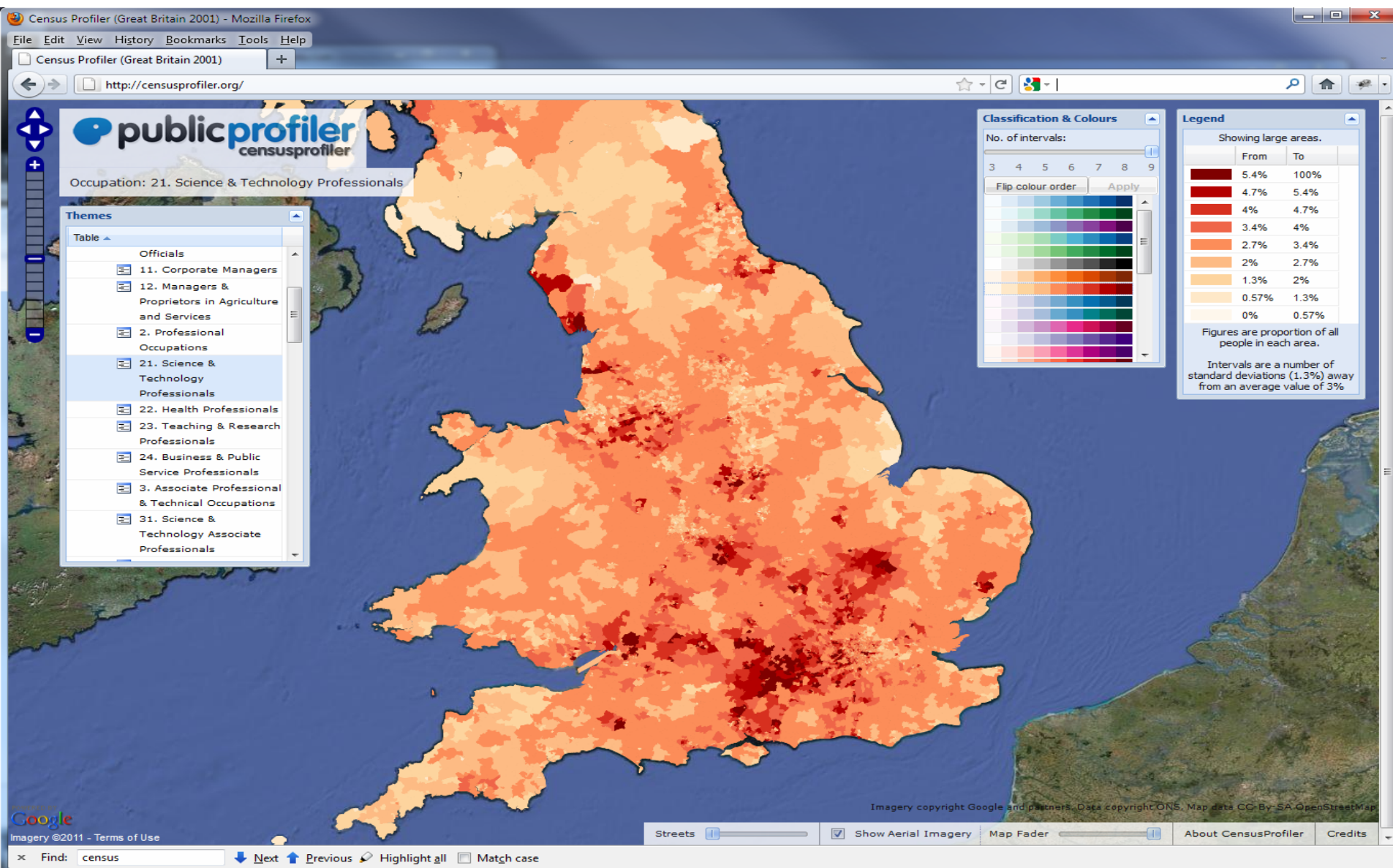
UCL – public profiler – 2001 Census data
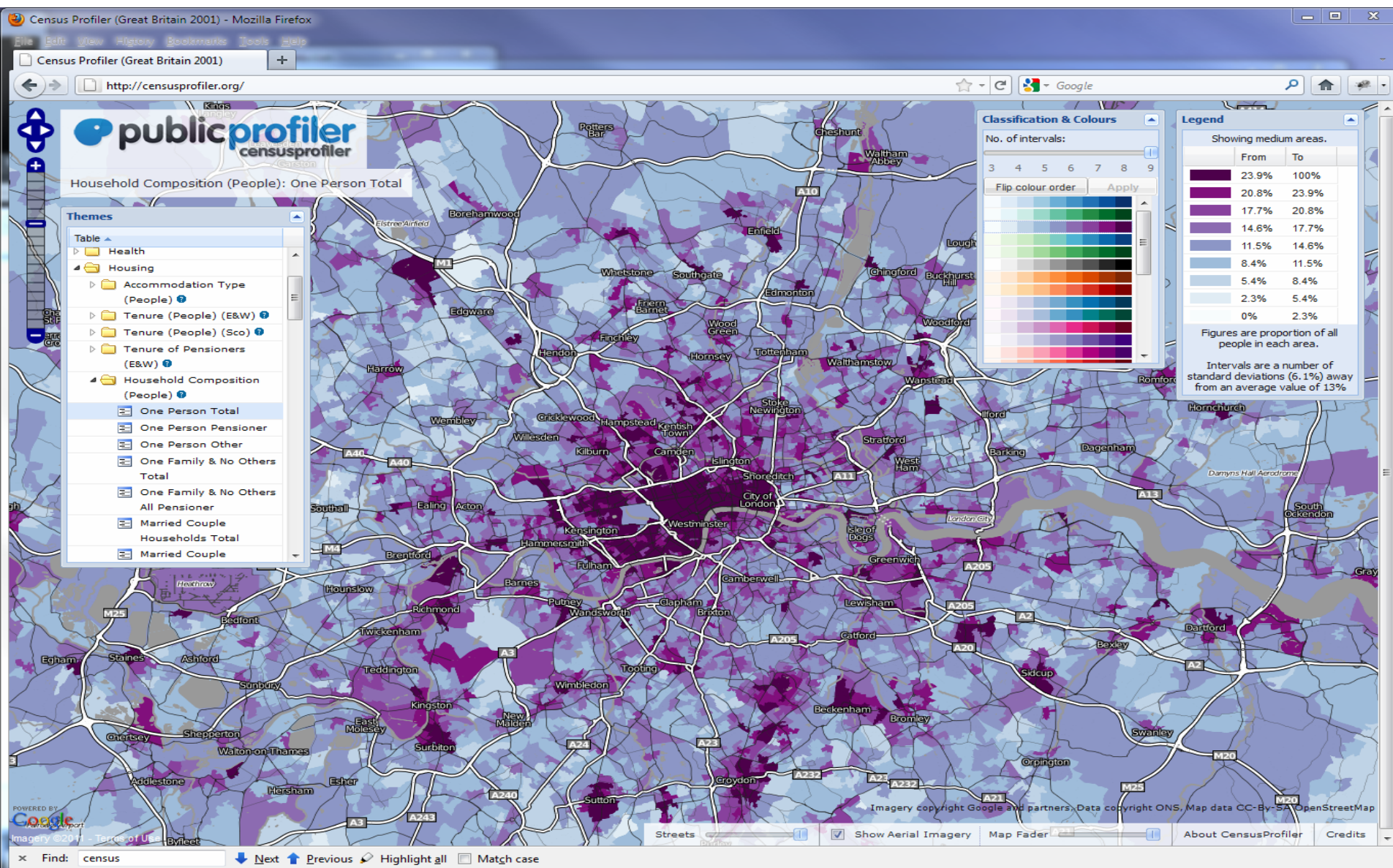
Maptube.org – OAC classification

Current and future work

- 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

- Census analysis programme
  - Multi-source analysis

- Exploiting website tools
  - Data Explorer and API

- Research capability
  - Longitudinal Study

Summary: New developments

- 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

- 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

Questions?