

# Scotland's 2011 Census

...the road to outputs

Head of Census Outputs  
National Records of Scotland

# Sit back and evaluate



# Downstream processing

May 2011 – Nov 2012



# DSP fixes...

- ▶ Multiple responses
- ▶ Coverage estimation and adjustment
- ▶ Derived variables
- ▶ Edit and imputation
- ▶ Statistical disclosure control
- ▶ Assignment of output areas
- ▶ ... and a lot more besides

# Data quality assurance

## Jun 2011 onwards



# Data quality assurance

- ▶ Built in design quality
- ▶ Census Coverage and Quality Surveys
- ▶ Data integrity checks – e.g. variable distributions
- ▶ Demographic quality assurance – check for under-enumeration
- ▶ Comparator data – NHS Central Register (NHSCR), HM Revenue and Customs (HMRC), Higher Education Statistics Agency (HESA), etc
- ▶ Census Data Quality Advisory Working Group – Local Authority (LA) members, academics, Scottish Government (SG)

# Outputs: consultation and planning 2007 onwards



# User consultation

- ▶ Spring 2007 – high level requirements
  - ▶ Spring 2010 – initial proposals for outputs
  - ▶ Feb 2011 – draft new table outlines
  - ▶ June 2011 – table outlines v0.1
  - ▶ Aug 2011 – proposed running order
  - ▶ Dec 2011\* – baselined table outlines v1.0
  - ▶ Mar 2012\* – outputs prospectus
- 
- ▶ Oct 2011 onwards – quarterly updates



# First release of results

## Summer 2012



# Release of detailed results early 2013



# Second release

- ▶ Univariate tables (76)
- ▶ Key statistics tables (24)
- ▶ Census profiles (5)
- ▶ Counts of people and households at postcode level
- ▶ Geography products

# Third release

- ▶ Census Area Statistics (CAS) tables (123)
- ▶ Census Area Statistics Theme (CAST) tables (11)

# Fourth release

- ▶ Standard tables (127)
- ▶ Standard Theme tables (28)

# Output geographies

Local authority

Ward

Health Board

Postcode sector

Parly constituency

National Park

Settlements/localities

Inhabited islands

Civil parish

Output area

SNS data zone

Community Health Partnership

Strategic Development Plan Authority

User-defined geographies

# Specialist products and services

- ▶ Microdata products
- ▶ Origin-destination data (migration and travel to work/study)
- ▶ More detailed tables – e.g. questions with write-in responses
- ▶ Analytical products
- ▶ Further consultation with users

# UK outputs

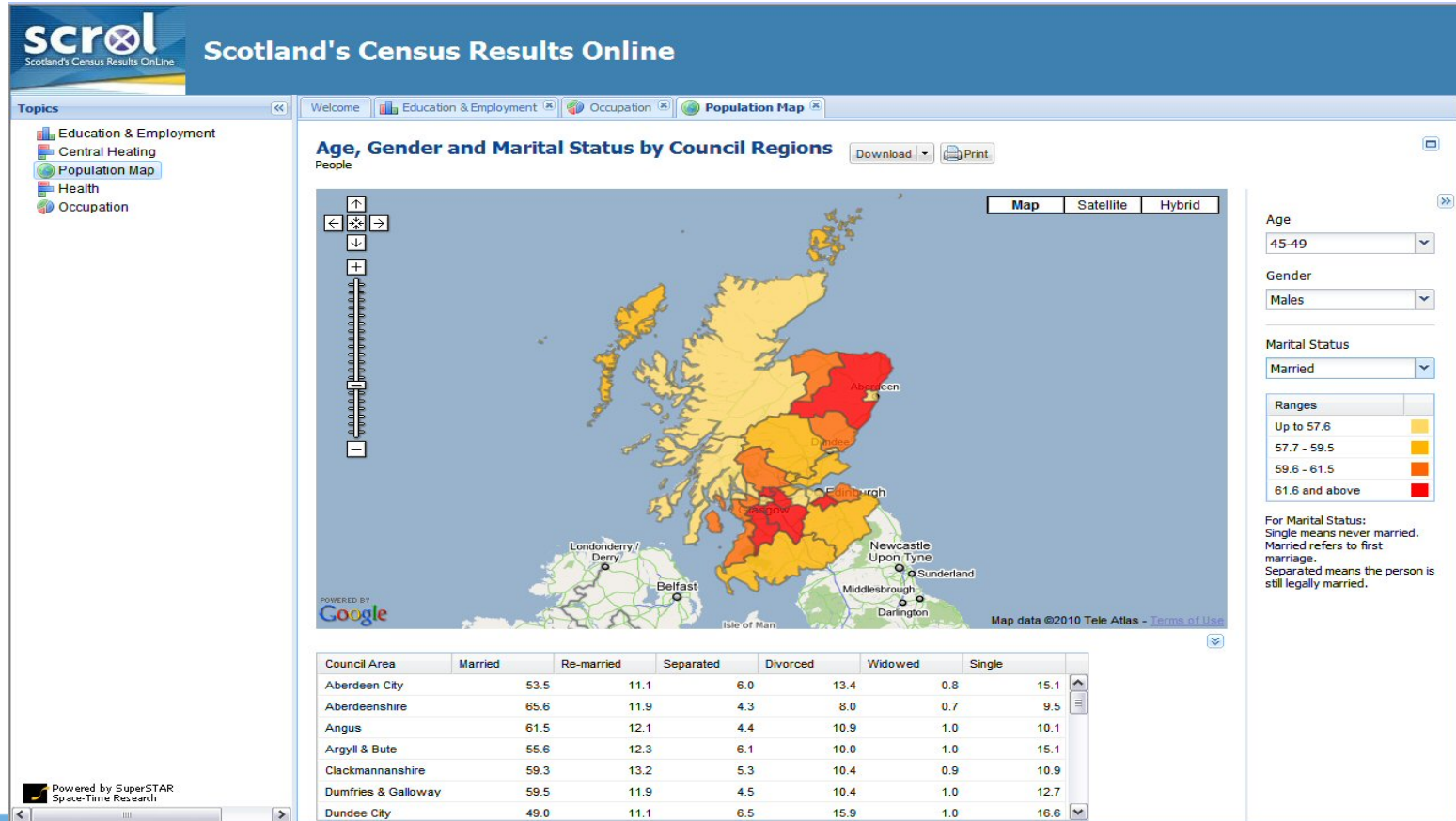
- ▶ Overall aim is for harmonised 2011 census outputs across the UK
- ▶ UK census offices co-ordinating work
- ▶ “One-stop shop” for UK census data



# Dissemination system

- ▶ Online system – successor to SCROL
- ▶ Access to pre-defined set of tables and standard output geographies
- ▶ Better data visualisations – charts, maps, etc
- ▶ Flexible table generation and user-defined output geographies
- ▶ Cater for different user types
- ▶ Prototype for user testing in early 2012

# Thematic maps



# Flexibility for users to customise tables and define new tables

SuperWEB2™ Select Topic | Logout [user1]

Table View | Graph View | Map View Powered by SuperSTAR Space-Time Research

Customise Table | My\_Custom\_Data | My\_Tables Download Table: Excel 2007 (.xlsx)(max 16,384 columns x 65,000 rows and < 100,000 cells) | Go

Change Database... Close

Select items below, then build your table. [Help](#)

[Collapse All](#) | Un-tick All | 0 items selected.

- West Dunbartonshire
- West Lothian
- Sex [2]
- Employment Status [2]
- Occupation [9]
  - 1. Managers and Senior Officials
  - 2. Professional Occupations
  - 3. Associate Professional and Technic
  - 4. Administrative and Secretarial Occ
  - 5. Skilled Trades Occupations
  - 6. Personal Service Occupations
  - 7. Sales and Customer Service Occupe
  - 8. Process, Plant and Machine Operat
  - 9. Elementary Occupations
- Hours Worked [2]

Retrieve Data  Automatically Retrieve Data Percentage: None

**Council Area by Occupation** ?

Counting: Number People

For further information see [Data Confidentiality](#).

Table cell count, including totals: 30 (10 columns x 3 rows).

Occupation	1. Managers and Senior Officials	2. Professional Occupations	3. Associate Professional and Technical Occupation	4. Administrative and Secretarial Occupations	5. Skilled Trades Occupations	6. Personal Service Occupations	7. Sales and Customer Service Occupations	8. Process, Plant and Machine Operatives	9. Elementary Occupations	Total
Council Area	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓
Edinburgh, City of	32,648	38,190	35,385	32,262	15,594	12,894	18,460	9,820	23,567	218,820
Glasgow City	23,158	27,158	31,106	29,863	20,261	16,024	21,226	16,420	29,830	215,046
Total	55,806	65,348	66,491	62,125	35,855	28,918	39,686	26,240	53,397	433,866

# Commissioned tables service

- ▶ For information not available from pre-defined tables or by other means, e.g. flexible table generation service

# Analytical products

- ▶ 2001 “Focus on” series of products
- ▶ ONS-led programme of work
- ▶ Initial list of suggestions – out for comment

# Benefits realisation

- ▶ Scotland's 2011 Census: ~£65m
- ▶ Need to get best return on investment
- ▶ Uses made of the data?
  - portfolio of concrete examples

**Do it all again in 10 years time?**

# Questions

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