

# Understanding Scotland's population in a data driven future

Edinburgh Zoo

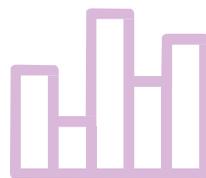
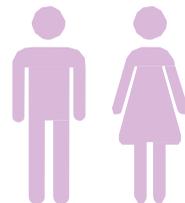
Thursday, 20 September 2018

This one day conference will bring together users and producers of Scotland's demographic statistics to understand the uses, impact and value of the statistics produced by National Records of Scotland. Hear the latest updates on Scotland's Census 2021.

With a wealth of high quality demographic statistics being made available in new and innovative ways, the population of Scotland can be understood like never before

Admittance is free, with lunch and refreshments also being provided. Please book your place [here](#).

## #PAMS2018



**20 September  
2018**
**Understanding Scotland's population  
in a data driven future**
**Edinburgh Zoo**

Time	Event		Location
<b>9.30 - 10.00</b>	<b>Registration and Coffee</b>		Education Centre
10.00 – 10.15	Launch of NRS statistics vision and ambitions (Amy Wilson, NRS)		Education Lecture Theatre
10.15 – 10.45	Programme for Government and the National Performance Framework (Tim Ellis, Scottish Government)		Education Lecture Theatre
10:45 - 11:15	How is Scotland's population changing and what are the implications (Kirsty MacLachlan and Esther Roughsedge, NRS)		Education Lecture Theatre
<b>11.15 – 11.30</b>	<b>Tea &amp; Coffee</b>		Mansion House - Gillespie
11.30 – 12.00	Parallel sessions - <b>Understanding Scotland's population - data and analyses</b>	The Scottish Burden of Disease Study Ian Grant (Principal Researcher, National Services Scotland) <b>1</b>	Mansion House - Geddes
		NRS council area profiles and local area migration statistics (Hannah Smith and Daniel Burns, NRS) <b>2</b>	Mansion House - Macmillan
		Creation and analysis of the Scottish Surveys Core Questions (Jamie Robertson, Scottish Government) <b>3</b>	Mansion House - Salvesen
12:05 - 12:35	Parallel sessions - <b>Increasing our reach sharing our data</b>	Demonstration of statistics.gov.scot, Scotland's open data platform (Liam Cavin, Scottish Government) <b>4</b>	Mansion House - Geddes
		Higher or Lower - How well do you know Glasgow (Bruce Whyte & Catherine Taberner, Glasgow Centre for Public Health) <b>5</b>	Mansion House - Macmillan
		Scotland's Census 2021 - interactive census workshop (Sarah Wood & Dave Sim, NRS) <b>6</b>	Mansion House - Salvesen
<b>12.35 – 13.30</b>	<b>Lunch</b>		Mansion House - Gillespie & Geddes
13.30 – 13.50	Scotland's Census 2021 - Overview of design, plans and where we are (Esta Clark, NRS)		Education Lecture Theatre
13:50 - 14:10	Scottish Health and Ethnicity Linkage Study, SHELS (Laurence Gruer, Honorary Professor of Public Health )		
14:10 - 14:30	Understanding Glasgow (Bruce Whyte, Glasgow Centre for Public Health)		
<b>14.30 – 14.50</b>	<b>Tea &amp; Coffee</b>		Mansion House - Gillespie
14:50 - 15:20	Parallel sessions <b>Increasing our impact - using our data</b>	Scotland's Census 2021 Use of admin data (Andrew Waugh, NRS) <b>7</b>	Mansion House - Geddes
		A rapid reflection model of demography in Scotland (David Robson, Scottish Government) <b>8</b>	Mansion House - Macmillan
		Time-to-death and National Statistics in Scotland (Maria Kaye, NRS) <b>9</b>	Mansion House - Salvesen
15:25 - 15:55	Parallel sessions <b>A data driven future</b>	Scottish Geospatial Strategy: Connecting people, places and things (Shona Nicol, Scottish Government) <b>10</b>	Mansion House - Geddes
		Linking Scotland's census: enabling policy through innovative research (Iain Atherton - ADRC-S) <b>11</b>	Mansion House - Macmillan
		Scotland's Census 2021 Data Collection (Germaine Vonhof, NRS) <b>12</b>	Mansion House - Salvesen
<b>16:00 - 18.00</b>	<b>Close and possible zoo/panda visits</b>		

Understanding Scotland's Population  
in a Data Driven Future

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# Presentation Abstracts

### **Launch of NRS statistics vision and ambitions**

**Amy Wilson, Director of Statistics and Registration Services, Census Director, NRS**

Welcome and introduction to the Conference and launch of the National Records of Scotland future vision for demographic statistics.

### **Programme for Government and the National Performance Framework**

**Tim Ellis, Deputy Director Performance & Outcomes, Scottish Government**

“Are we nearly there yet?” Reflections on the role of statistics, data, acronyms, policies, programmes, performance, and priorities for Scotland, in the light of the recently published PfG and NPF.

### **How is Scotland’s population changing and what are the implications**

**Esther Roughsedge & Kirsty MacLachlan, NRS**

An overview of how Scotland’s population is changing, and what the implications are. This will include trends in migration, births, deaths, life expectancy and household formation.

### **The Scottish Burden of Disease Study**

**Ian Grant, Principle Researcher, NHS National Services Scotland**

Detailed estimates on the burden of disease allows us to see how the full spectrum of disease and injury is contributing to the overall health loss of a population, thus making comparisons across all diseases and injury a possibility. In a diverse population such as Scotland, a comprehensive burden of disease study can help policy makers and planners understand variations in local areas, demographic and socioeconomic circumstance, which in-turn provides evidence for the stratified management of healthcare resources and interventions.

### **NRS council area profiles and local area migration statistics**

**Hannah Smith & Daniel Burns, NRS**

The first part of this presentation will focus on the new NRS Council Area Profiles, which provide a summary of the latest NRS demographic statistics for each of Scotland’s 32 council areas. The second part of the presentation will look at the wealth of different local area migration statistics available to users and how these can be accessed and shared.

### **Creation and analysis of the Scottish Survey Core Questions**

**Jamie Robertson, Statistician, Office of the Chief Statistician, Scottish Government**

Population surveys provide some of the highest quality information on the Scottish population. However they often struggle to represent small population groups accurately. Using innovative techniques, SG analysts have produced a new source of information at low cost to quantify and understand Equalities Act-protected groups and provide local estimates of key policy outcome metrics.

## Demonstration of statistics.gov.uk, Scotland's open data platform

Liam Cavin, Scottish Government

Scottish Government manages an open data portal, [statistics.gov.scot](https://statistics.gov.scot), on behalf of all producers of official statistics in Scotland. The data portal allows you to investigate, visualise, and download over 230 datasets covering a wide range of topics. You can explore datasets by geography, generate tables, and create bespoke collections of data for download. This data collection contains a wealth of information that describes the country and communities that we live in, and is an invaluable resource to aid evidence based decision making. In this session, Liam will guide you through some of the key features and content of this resource.

## Higher or Lower – How well do you know Glasgow

Bruce Whyte & Catherine Tabbner, Glasgow Centre for Public Health

The Glasgow Centre for Population Health (GCPH) and the University of Glasgow have developed a new 'Higher or Lower' game, using health and wellbeing statistics from [Understanding Glasgow](#) to investigate how neighbourhoods across the city compare – and how well we actually know our own neighbourhood.

The game is built around a physical 'tower of statistics'. Each panel in the tower provides a different indicator, from 'young people living within 400m of greenspace', to 'people limited by disability'.

Each section swivels to reveal the topic, associated graphics and the stats panel with a sliding 'reveal' for added drama! The stats are presented on a wipe-clean blackboard, allowing customisation for any neighbourhood in Glasgow.

The workshop will introduce the game and describe experiences of using it across Glasgow with communities and at engagement events over the past year. The game could easily be adapted to a different set of statistics or to a different set of comparison areas.

## Interactive Census Workshop

Dave Sim & Sarah Wood

Help us answer key questions which will inform our Census planning. What do we need to know about your area of expertise, and how can you help us deliver a successful Census.

## Scotland's Census 2021 – Overview of design, plans and where we are

Esta Clark, NRS

This session will give an overview of design, plans and where we are in preparing for Scotland's 2021 Census. It will cover what our aims are, how we intend to collect and output information. It will also cover what is changing from 2011, the process for designing questions to deliver high quality outputs that meet user needs and how we are aiming to engage with stakeholders and key groups.

## **Scottish Health and Ethnicity Linkage Study, SHELS**

**Prof Laurence Gruer OBE**

This presentation will briefly describe the origins and methods of the study, based on linkage between the Scotland 2001 Census and health and death records. It will then summarise key findings when comparing ethnic groups across a wide range of health related issues from life expectancy to breast screening.

## **Understanding Glasgow**

**Bruce Whyte, Glasgow Centre for Public Health**

This talk will present examples of some of the research the Glasgow Centre for Population Health has undertaken over the last 14 years highlighting the use made of demographic data from the Census and other NRS publications. Examples will include the Glasgow Indicators held on the Understanding Glasgow website, health profiles, Miniature Glasgow, international mortality comparisons and a new environmental indicator.

## **Scotland's Census 2021 Use of admin data**

**Andrew Waugh, NRS**

This talk will focus on the work of Scotland's Census 2021 Admin Data branch. The talk will cover our plans for how admin data is being used as part of Scotland's Census 2021, and also about work to produce population and household estimates from admin data.

## **A rapid reflection model of demography**

**David Robson, Scottish Government**

Rapid Reflection' is a tool that provides senior decision-makers with a strategic framing of the context and consequences associated with difficult policy challenges. Using large scale graphics, this session will highlight the strategic issues relating to demographic trends in Scotland. It will explore the different ways each generation have experienced the recent past (with consequences for their prospects and expectations of the future) and will also look ahead at some of the most important demographic trends that will play-out over the next few years including: the impact of Brexit on migration; an ageing population; greater intergenerational co-dependencies; and the differences in demographic changes within Scotland at the local level.

## **Time-to-death and National Statistics in Scotland**

**Maria Kaye, NRS**

A person's age is usually measured as chronological age, the number of years since birth, but it can also be measured as thanatological age, the number of years until death.

Unlike chronological age, thanatological age is affected by life expectancy. For example, in Scotland, a man aged 65 in 1981 could expect to live 12 more years. A man aged 65 in 2016 however, could expect to live a further 17.5 years; in thanatological terms, he is 'younger' than the man in 1981.

Currently, national statistics publications report on both life expectancy and ageing but do not explore how they might interact. Here we use life expectancy and population structure to examine how Scotland's population has aged in both chronological and thanatological terms and how it will continue to age.

We present ways in which these statistics might be used alongside the official statistics currently produced by NRS, in order to identify the challenges and opportunities Scotland faces and to inform policy and planning.

### **Scottish Geospatial Strategy: Connecting people, places and things**

**Shona Nicol, Scottish Government**

Using geospatial data to connect people, places and things - driving innovation, improving public services and unlocking economic value for Scotland. In Scotland the public sector uses and creates a large amount of geospatial data and it must ensure that it is well placed to maximise the value of that data. There is also a significant opportunity for the Scottish economy in this rapidly expanding geospatial data market.

### **Scottish Data and Informatics Partnership**

**Iain Atherton, ADRC-S**

The decennial census has long been a valuable resource. Developments enabling linkage to other administrative data sources have enabled an exponential increase in research questions analysis can address. Resulting projects are now addressing important research questions with relevance to people's lives. This paper will provide examples of research using census linkage in Scotland that would have been otherwise impossible using other approaches. The contention will be made that the census has never been as crucial to policy and practice as it is today.

### **Scotlands Census 2021 Data Collection**

**Germaine Vonhof, NRS**

An interactive session that will provide attendees with an overview of the current plans to support the enumeration of different population groups to maximise Census response, in particular online response. An opportunity to see which groups we have identified and adapted our approaches for and to comment and feedback on these approaches; from considering digital exclusion to enumerating homeless groups.

**ZOO** November – February 4:30pm  
 CLOSING TIME: March 5pm



Main event and plenary sessions are in the Education Centre

Lunch and parallel sessions are in the Mansion House

Enter the zoo via the Members' Gate in the car park (not the main entrance)

Koalas and Walkthrough opening hours may vary

- Mobility vehicle pick-up point (request service only)
- Toilets
- Disabled toilets
- Restaurant
- Picnic area
- Shop
- Play park
- Kiosk
- Car park
- Hilltop viewpoint
- Wild about Scotland Garden supported by Clydesdale Bank
- Recycle for Scotland Recycling Point
- First aid
- Animal Walkthrough
- Shelter
- Timed event
- Wet weather
- Day route
- Suggested detour



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