### Statistics Jersey at the GSS conference 2018



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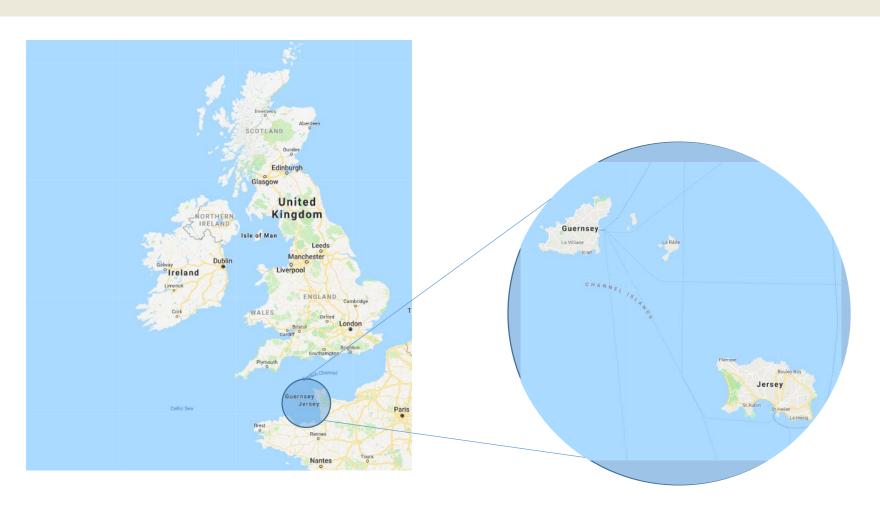


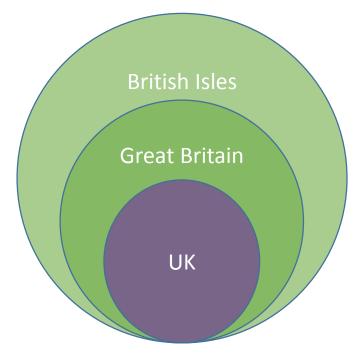
- Where and what is Jersey?
- Who are Statistics Jersey?
- A stattos tour of our Island...

- The future for Statistics Jersey:
  - our new law
  - transforming our outputs through administrative data sources

# Statistics Jersey at the GSS conference 2018 Where and what is Jersey?







# Statistics Jersey at the GSS conference 2018 Where and what is Jersey?













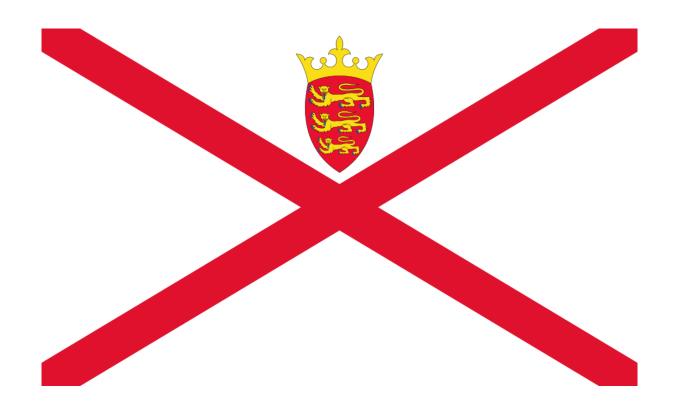






# Statistics Jersey at the GSS conference 2018 Where and what is Jersey?







### Statistics Jersey – who we are The Statistics and Census (Jersey) Law 2018



### The provider of official statistics for Jersey:

"Statistics Jersey is responsible for the collection and processing of data for statistical purposes in accordance with this Law with the aim of –

- (a) providing statistical reports of interest to, and which assist with decision-making by, **public** authorities, other undertakings and individuals (including the general public);
- (b) contributing to public policy development and the delivery of public services; and
- (c) co-ordinating as effectively as possible and rendering useful the information produced from the data **and avoiding unnecessary duplication** of requests for information."

#### Key points in the law:

- We are there for everyone
- Our work is protected from political interference
- We can now mandate businesses to respond to our surveys
- We have a legal gateway for accessing administrative data indeed a duty to utilise it wherever possible

### Statistics Jersey – who we are What we do





#### **Chief Statistician**

#### **Business and economy**

- labour market
- average earnings index
- finance sector survey
- business tendency survey
- GVA & GDP
- retail prices index
- house price index
- housing affordability
- unemployment
- purchasing power parity



### **People statistics**

- population
- population projections
- census
- e-census
- opinions & lifestyle survey
- school survey
- income distribution survey
- household spending survey



#### **Public health**

- mortality & fertility
- alcohol profile
- smoking profile
- diet profile
- obesity rates
- incidence rates & projections



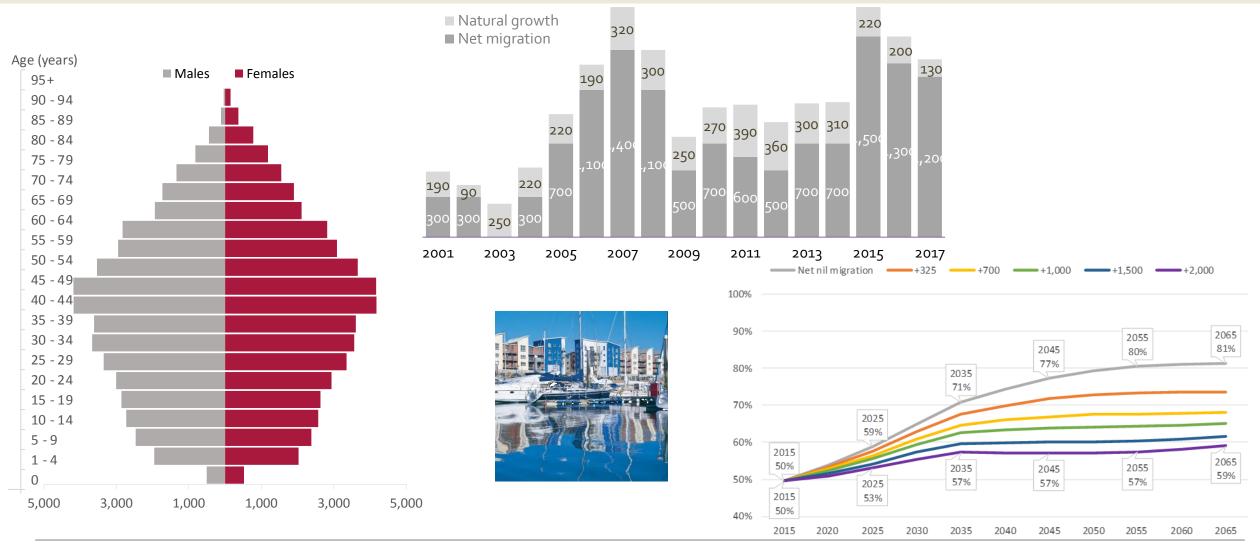
#### Ad-hoc and future changes

- ad-hoc queries from:
  - o ministers
  - chief officers
  - o the public
  - businesses
- advice e.g:
  - data analysis
  - survey design
- additional stats in future:
  - education
  - o tourism



# A statto's tour of Jersey Population

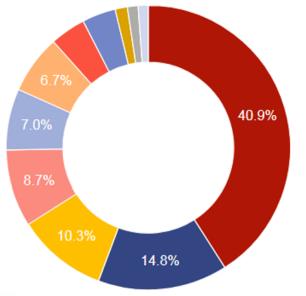




### A stato's tour of Jersey **Business and economy**

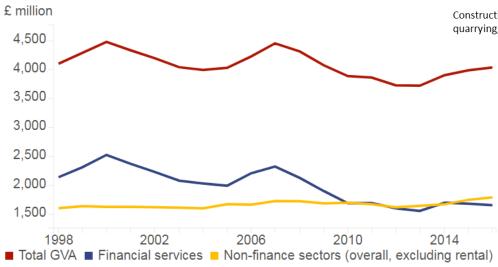




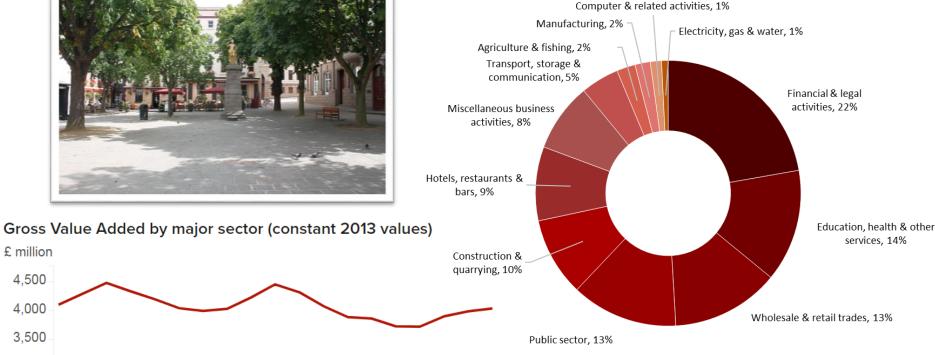


- Financial services
- Rental income of private households
- Other business activities (excluding rental)
- Public administration
- Wholesale & retail
- Construction
- Hotels, restaurants & bars
- Transport, storage and communication
- Electricity, gas & water
- Agriculture
- Manufacturing



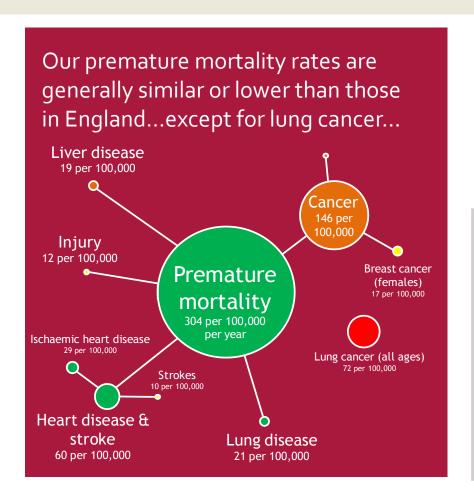


#### Workforce distribution



### A stato's tour of Jersey Public health





Jersey has the highest per capita consumption of alcohol in Europe



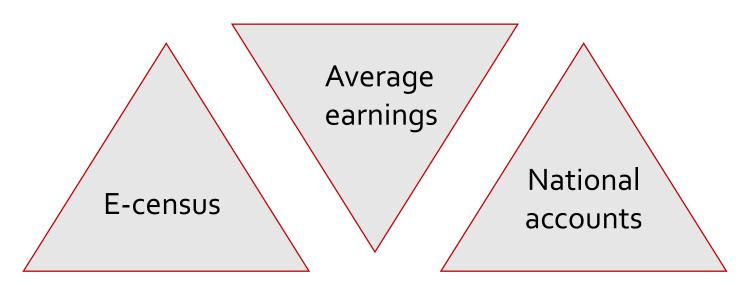


# Administrative data The future of Stats Jersey?



"For the purposes of a census, Statistics Jersey must, at such intervals as the Chief Statistician directs, analyse and link data collected for administrative purposes already in the possession of Statistics Jersey or readily obtainable by it."

"Statistics Jersey must seek to avoid collecting data where data collected for administrative purposes is readily accessible, of suitable quality and sufficiently up to date to enable it to carry out its functions under this Law."



# Administrative data e-census – why?



### Population measurement can be:

- More frequent
- More timely
- At less cost (?)
- Longitudinal
- Less burdensome

### **But**:

- Loss of time series
- Reliance on admin data quality susceptible to policy and practise
- Relies on relevant concepts being adequately captured by admin data source
- Loss of family history?

### Administrative data e-census



**Preschool Health** 

Student finance

Youth service

Highlands higher and adult education centre

Manpower

School census

Social security

Statistics Jersey

### Administrative data e-census



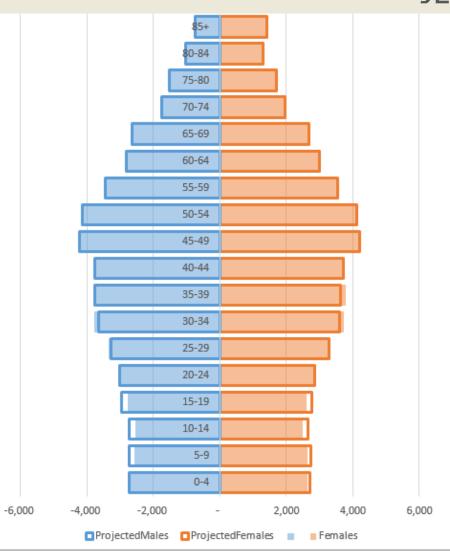
Quarter	2015-1	2015-2	2015-3	2015-4	2016-1	2016-2	2016-3	2016-4	2017-1	2017-2	2017-3
Nessie-HasContCredit											
Nessie-ContExemption											
Nessie-HasMedicalBen		Υ						Υ			
Nessie-HasRegCard			Υ								
Nessie-HasClass1			Υ	Υ	Υ	Υ					
Nessie-IsASW	Υ	Υ									
Nessie-HasClass2											
Nessie-HasOtherBen											
Nessie-IsISorISRC	Υ	Υ									
Nessie-HasNonPayingElection											
Nessie-OnIsland											
Nessie-OffIsland											
Nessie-OnIslandAndOtherBen											
Nessie-1-OnIslandEoR											
PreschoolHealth-AttendedImmsOrExamInYear											
PreschoolHealth-RecordedAsInJersey											
SchoolRoll-OnSchoolRoll											
SchoolRoll-PossibleUKBoarderNextYr											
Highlands-EnrolledOnCourseInQEnding	Υ	Υ	Υ	Υ							
Highlands-OnRoll	Υ	Υ	Υ	Υ							
Highlands-EnrolledOnCourseOnDay	Υ	Υ	Υ	Υ							
StudentFinance-AtUni											

### **Administrative data**

### e-census



	Set A weights				
	Males	Females			
0-4	2,712	2,634			
5-9	2,573	2,647			
10-14	2,533	2,502			
15-19	2,753	2,618			
20-24	3,041	2,889			
25-29	3,337	3,313			
30-34	3,761	3,742			
35-39	3,815	3,785			
40-44	3,783	3,750			
45-49	4,239	4,258			
50-54	4,169	4,123			
55-59	3,445	3,558			
60-64	2,810	2,944			
65-69	2,584	2,682			
70-74	1,730	1,983			
75-80	1,529	1,746			
80-84	1,023	1,300			
85+	738	1,419			
Total	50,571	51,889			
Total		102,460			



# Administrative data Average earnings index



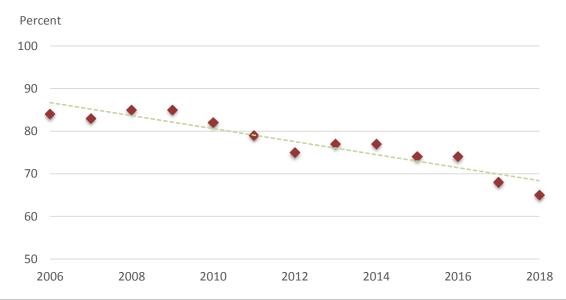
### **Currently:**

- annual voluntary survey of businesses in June
- coverage is 44% of total workforce
- aggregate data for gross wages in June
- uses "matched pair" methodology phased out by ONS in 2010

#### **Issues:**

- falling response rates
- annual survey unable to track monthly changes
- not possible to calculate median
- no information on distribution of earnings
- demographic breakdown not possible (age, gender)

#### Response rate for average earnings survey 2006-2018



# Administrative data Average earnings index



#### **Administrative data sources:**



- Social Security department employee contributions (similar to national insurance)
  - Employers report monthly earnings information for (almost) every employee each quarter
  - Age, gender, residential status
  - Unique person reference ('JY number')



- **Population office** 6-monthly Manpower survey
  - Employers report every employee (name and 'JY number')
  - Residential status, contract type
  - Employer industry is coded using Standard Industrial Classification



- Income tax employee earnings reported monthly
  - O JY number?

# Administrative data Average earnings index



#### **Challenges:**

- Paperwork:
  - Data sharing agreements
  - Data protection impact assessment
- Some gaps in social security dataset
- Data quality of admin sources currently unknown (issues record-linking)
- Lag in administrative data availability
- Potential break in time series
- Not possible to separate components of earnings e.g. bonuses

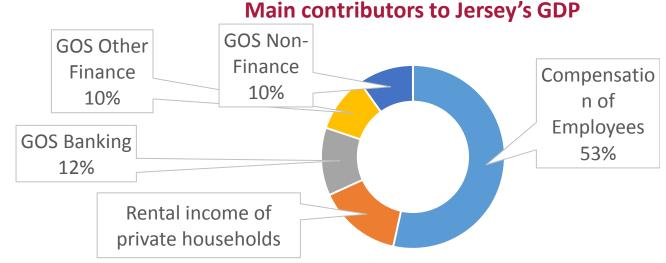
### Administrative data Increased frequency of national accounting measures

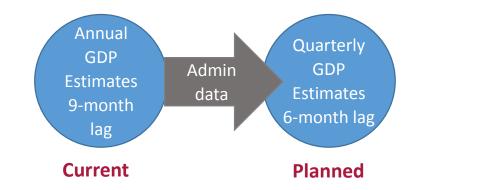


#### Administrative data sources:

- Compensation of employees
  - Social security employee contributions
  - Income tax instalment scheme
- Rental income of private households
  - Population modelling
  - Quarterly rental and house price index
- GOS Banking
  - Jersey Financial Services Commission Prudential reporting returns
- GOS Finance
  - GST returns (partial coverage)
  - Jersey Financial Services Commission quarterly statistics
- GOS Non-Finance
  - GST returns (almost complete coverage)

All administrative sources are updated at least quarterly





### Thank you for listening! Any questions?





www.gov.je/statistics statistics@gov.je

