Leveraging information infrastructure modernization programs

integration of statistical and geospatial information
Organisational Setup

2007 Statistics and Registration Services Act
Changing geographies 2011
What ONS understands by modernisation

- Standards Based Approach
- Administrative Sources
- Organisational Change
- New Methods of Data Collection
- Improved coherence of economic statistics
- Business Registers
Standards Based Approach

- Design: Development activities and research
- Build: Building and testing the system
- Collect: Collect all necessary data
- Process: Cleaning of data records
- Analyse: Statistics are examined in detail
- Disseminate: Release of geographic products to support statistics
- Evaluate: Ensure user needs have been met
- Specify Needs: Identifies what the requirement is and whether we can meet it

**METADATA MANAGEMENT**

- Conducts research into the impact of geography policy on statistics
- Integration of geographic codes into the system
- Address Based Sampling Framework
- Understand the impact of cleaning on geographic codes
- Time series across changing geographic base
Standards Based Approach

Standards in UK Geography
• IST/36 – de jure standards
• OGC – de facto standards
• Association for Geographic Information
• INSPIRE Data Specifications
• GEMINI 2.1 metadata
Administrative Sources

• Beyond 2011 Research Programme

• Recommendation to Parliament of an online Census and register based Census for 2021

• UK legislation needed to provide access to UK registers

• UK address register is needed to support an administrative approach

But what impact do administrative sources have on the maintenance of small area statistical geographies?
Administrative Sources

• No person level identifiers available to join up administrative data
• Joining up of data needs to be done at the household level
• Previously several competing address databases with various levels of quality
• Cost £12m to attempt to resolve this for Census

• Now a single product – AddressBase that is the authoritative address set for Great Britain
• Provided to government agencies under the public sector mapping agreement
We must innovate or die, says UK’s new top statistician

By Chris Giles and Emily Cadman

Britain’s new national statistician has admitted that the increasing concern about the quality of official data in government departments, the Bank of England and among economists should serve as a “wake-up call” for the Office for National Statistics.

The new head of the ONS, John Pullinger, said his organisation needed constantly to seek to find new data and ways to improve the accuracy of economic statistics.

“We must innovate, otherwise we will die,” he said in an interview with the Financial Times.

In the past two years, the ONS has come under fire for its website and for presenting official statistics on the economy that important users such as the BoE and Treasury find incomprehensible. Officials worry privately that there has been a significant reduction in the quality of statistics, particularly the crucial national accounts, since the move from London to Newport.

Britain’s central bank has even stopped using the
Organisational Change

- ‘Change Journey’ has been implemented to try and standardise the ONS approach to change within the organisation

- Previous attempts at change have been ad hoc and largely unsuccessful

- In particular, IT projects have not handled change particularly well

- A new ‘Strategy and Standards’ Division has been established to bring together the methodological business areas with the IT leadership to attempt to improve this
Improved coherence of economic statistics

- UKSA monitoring report on the geography of economic statistics

- Greater flexibility in economic outputs is required as geographic requirements change regularly

- More understanding of the Geography Policy for National Statistics is required

- More access to register based data sources is required

- Recommended ‘Workplace Zones’ as the geography to deliver the requirements of the monitoring report
Workplace Zones

OA Count

disclosive

<100 | 100 - 199 | 200 - 299 | 300 - 399 | 400 - 499 | 500 - 599 | 600 - 699 | >700
Open Data

- Link your data to other people’s data
- Use URIs to identify things
- Use open standard formats (XML, RDF)
- Make it available as structured data (csv)
- Put your data on the web (any format)
Dissemination

Home

Users are encouraged to register to receive regular bulletins highlighting updates and changes.

The Open Geography Portal allows users to discover, view and download geographical reference data to support National Statistics.

You can simply...

Find Data

Search Data
Download Data

Further Information

ONS links

What's new
ONS Geography
ONS Linked Data
Licensing
Contact us
Getting Started

Related Links

INSPIRE
data.gov.uk
OS Open Data

This Geoportal was built using the Geoportal Server. Please read the Disclaimer and Privacy or Contact Us.
City of London
Type: London Borough (LONB)
Theme: Administrative
Official URL: http://statistics.data.gov.uk/id/statistical-geography/E09000001

### Related Resources

**Workplace Zones (WZ)**
- E09000016
- E09000017
- E09000018
- E09000019
- E09000020
- E09000021
- E09000022
- E09000023
- E09000024
- E09000025

### City of London Metadata

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Collaboration

- Formal collaborative with National Mapping Agency Ordnance Survey
- Formalised through a Memorandum of Understanding
- Document and manage joint projects between the organisations
- Data access is provided through the Public Sector Mapping Agreement
- Technological collaboration exists to bring together the various geoportals into a single access point
- Collaboration exists across academia and the commercial sector as well
Metadata

• Metadata produced to the ISO19115 Standard

• UK Implementation of INSPIRE Directive set out GEMINI 2.1 as the metadata standard for geographic data

• ONS research programme designed to provide additional metadata for geographic and statistical product releases
Geography Policy for National Statistics

GSS Framework for Geography

National Statistics, for any Geographical Area
- Consistent
- Comparable
- Non-Disclosive

Policy
Reference Data
Implementation

https://geoportal.statistics.gov.uk
Summary

• A strong research programme is needed to inform policy and provide metadata
• Collaborations should be across sectors and formalised where possible
• Population based geographies allow them to be designed around particular demographics such as workers
• A strong organisational relationship between geographers and IT is required

Ensuring statisticians understand where geography fits into business processes is key!