



# The 2011 Census

Supplier Information Meeting 14<sup>th</sup> July 2005



**Welcome**

Ian Cope

# Supplier Open Meeting

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- Background to Census
- UK harmonisation
- The procurement strategy
- Inform the market place
- Give you the opportunity to meet other suppliers
  - List of attendees available

# Introductions

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- **Representatives from**

- Office for National Statistics (ONS)

- on behalf of England and Wales

- General Register Office for Scotland (GROS)

- Northern Ireland Statistics and Research Agency (NISRA)

# Agenda

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- Importance of the Census
- 2011 Census
- High Level Design
- NISRA
- GROS

Karen Dunnell  
Ian Cope  
Pete Benton  
Robert Beatty  
Peter Scrimgeour

- Break - 14:00 approx

- Procurement Strategy & process
- Activities, timetables & volumetrics

Catriona Flear  
Claire Stretch,  
Henrie Brown

- Questions
- Informal discussions & coffee – 16:00 to 17:00 approx

# Questions & Information

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- Question session and open discussion at the end
- During presentation – clarification questions accepted
- Information presented today represents our current thinking but may be subject to change



# Importance of the Census

Karen Dunnell  
Executive Board Member  
Senior Responsible Officer

# 2011 Census

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- Large and complex project planned over a long period
- Important to local and central government and the people
- In early stages so keen to inform the market place



# Joint Working

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- ONS responsible for England & Wales
- GROS responsible for Scotland
- NISRA responsible for N Ireland
  
- Harmonisation agreement signed by all 3 Registrar Generals

# Commitment to the Project

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- ONS required to prepare for the next Census
- Funding arrangements up to March 2008 are being finalised
- Investment bid to Treasury in 2006 Spending Review for the whole Census
- White Paper to Parliament July 2008

# Supplier Information Meeting

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- This event gives you an introduction to the Census and our requirements and how we envisage moving forward
- Thank you for giving your time
- We hope you enjoy the afternoon



# 2011 Census

Ian Cope  
Census Director

# Outline

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- UK Harmonisation
- Drivers of 2011 Census design
- 2001 Census Key Lessons
- Changing Society
- Additional requirements
- Strategic Aims – Statistical
- Strategic Aims - Operational

# UK Harmonisation

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- Governance structure
  - UK Harmonisation Committee
  - UK Census Committee
- Organisations working together to produce consistent outputs

# Drivers of 2011 Design

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- Evaluations of 2001 Census
  - Treasury Select Committee
  - National Audit Office
  - Public Accounts Committee
  - ONS internal evaluation
  - User response to 2001 Census results
- Changes in context
  - society
  - available technology
  - addressing infrastructure

# 2001 Census - key lessons (1)

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- Postback
  - successful, 88% postal response
  - localised delays in mail system caused problems
  - £10m overspend in unnecessary field follow-up?
- Differential non-response
  - 96% overall response rate
  - but below 70% in some areas
- Coverage assessment / adjustment
  - worked well generally, but problems in low-response areas
  - need to do even more to understand coverage



# 2001 Census - key lessons (2)

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- Lack of control in field
  - no central questionnaire tracking system
  - management information system failed
  - didn't know how many questionnaires delivered or returned
  - pockets of poor enumeration undetected
- Significant recruitment and payroll problems
  - hard to recruit in inner city areas
  - 40% paid late
  - £500,000 overpaid
- Late start to development - no full Rehearsal

# Changing society

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- Increasingly mobile population
  - Local populations change by day of week; time of year; across years;
  - With complex geographical patterns
- More complex structures
  - Some reside in more than one address; household; family; geographic area; country
- Strong drive for small area data

# Additional requirements

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- Increased frequency
- More flexible counting base
  - usual residence
  - daytime/service population
  - others ...
- Further improve accuracy / confidence in estimates
  - build on the One Number Census

# Strategic Aims - Statistical

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- Maximise response, reduce differences in response rates
- Develop robust initiatives and procedures for hard-to-count areas/groups
- Enable outputs on a number of population bases
- Build more ways to assess coverage into the operation
- Speed up delivery of data, more time to QA

# Strategic Aims - Operational

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- Reduce recruitment, retention and pay problems of large field force
- Accurate, “real time” information on response
- Good management of publicity and public engagement
- Multiple response routes
- Develop effective partnership with Local Authorities
- Be cost effective



# 2011 Census High Level Design

Pete Benton

# Outline

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- Design overview
  - Delivery
  - Collection
  - Follow-up
  - Control Systems
  - Public Interface
  - Channel Management
  - Data Capture operations
  - Follow-up Surveys
  - Outputs
- Summary of major changes from 2001 Design
- Development Timetable

# Delivery

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- Flexible Approach - mix of delivery strategies
  - targeted through analysis of hard-to-count groups and areas
- Post-Out in 'easy' areas
  - using pre-addressed census questionnaires with unique id
  - development of address register is a key activity
- Traditional delivery in 'hard' areas
  - smaller field force, team based?
- Possibly face to face interview in hardest areas



# Response

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- Post-Back
  - questionnaires mailed directly to central processing centre
  - response management system provides rapid updates to field managers
  - enables early start to processing as soon as questionnaires checked in
- Internet capture
- Telephone capture for certain population groups
- Face to face interview

# Non-response follow-up

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- Possible postal follow up
- Field follow-up
  - local field force
  - acting on central intelligence from response management system
  - using technology for two-way communication
- Publicity message: moves up a gear to reinforce legal requirement to complete a questionnaire
- Non-compliance proceedings

# Partial response follow-up

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- Field follow up for completely blank questionnaires
- Telephone follow-up for partially completed questionnaires
- Challenges for rapid identification during paper data capture
- Extent of follow-up yet to be decided
  - Likely to be sample-based
  - Possible geographical prioritisation of questionnaires for scanning

# Control Systems

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- Every questionnaire uniquely identified
- Progress tracked at key stages
  - from printing to destruction
  - near real time
- Enables multiple response routes
- Provides intelligence to field force
- Enables central Post-Back and earlier processing
- Provides central operational management info
- Underpinned by accurate address register, with tight control of additions and robust reconciliation
- Requires field communication technology

# Public interface

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- **Publicity**
  - increased to address lack of face-to-face contact
  - targeted at specific areas / population groups
  - better timed, responsive to events
- **Even stronger 'community liaison' programme**
- **Contact Centre**
  - issue additional questionnaires, update address register and response management system
  - provide guidance, respond to queries
  - enables telephone capture
- **Web Self Help facility**

# Data capture operations

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- Paper data capture modelled on 2001 approach
- Additional elements
  - Internet and telephone response routes
  - Integration of data from multiple response routes
  - Fast questionnaire receipting to enable non-response follow-up
  - Identification of blank / partial responses
- Other changes
  - ‘Continuous’ flow of data to ONS, not batched
  - Earlier start and finish to paper data capture
  - Improved integration at Processing/Field interface

# Channel Management

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- Not clear what the internet response rate will be
- Assumptions will affect sizing of web and paper capture systems
- Need to have an explicit channel management strategy, implemented through publicity campaign
  - based on clear understanding of the costs and benefits of different levels of response through different routes
  - will evolve over time as societal context develops
- Need to carefully research assumptions, and be prepared for alternative scenarios
- ONS will decide the publicity messages
  - working closely with suppliers of data capture services

# Follow-up surveys

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- Coverage survey
  - re-enumeration of 1% of the population
- Quality survey
  - much smaller sample
- Likely to use many of the census systems, with modifications
  - will be included in the main census contracts
- Extent to be determined



# Census Design - Outputs

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- Similar timetable to 2001 for first release
  - Sept 2012
- Earlier start and finish to data capture gives more time for Quality Assurance

# Summary of Major Changes to 2001 Methodology

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- Multiple delivery strategies, including post-out, targeted through geo-demographic analysis
- Multiple response routes, including internet
- Central Postback
- Robust response management systems
  - individual questionnaire tracking
  - fast receipting
  - field communication technology
- Faster and more complex data capture operations
- Response integration
- Increased PR with better targeting

# Timetable

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- 2007 Field Test
  - Response rates
    - Income question
    - Post out
  - Operational capability
    - Post out
    - Dynamic field force/response management
- 2008 Integration Test
  - Evaluating systems & interfaces
- 2009 Rehearsal
  - Full test of systems & operations
- 2011 Census
  - You have to get it right first time

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a book

**Robert Beatty**  
**Demography and Census**

# Legislation

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- Devolved function
- Separate legal authority – Census Act (Northern Ireland) 1969
- Final approval by local Assembly

# 2011 Volumetrics

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- NI expected population around 1.74m
- Approximately 700,000 households
- 3% of total UK population

# Northern Ireland Differences

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- At least some different questions
- Operational processes/design e.g.
  - Enumeration strategy (possibly hand delivery with local postback)

# UK Harmonisation

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- Consistent UK outputs
- Similar timetable
- Work together to meet the needs of UK data users





**General Register Office**  
*for*  
**SCOTLAND**  
*Information about Scotland's people*

**Peter Scrimgeour**  
**Census**

# Legislation

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- Devolved function
- Separate legal authority
- Responsibility of General Register Office Scotland
- Brought before Scottish Parliament for approval

# 2011 Volumetrics

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- Scottish expected population around 5m
- Approximately 2m+ households
- 8% of total UK population

# Scottish Differences

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- At least some different questions
- Operational processes/design e.g.
  - Enumeration strategy follows more traditional approach of hand delivery / post out and local post back to the field staff (similar to NI)
  - Differences in the processing and timing of form return
  - Central operational intelligence requirements are less

# UK Harmonisation

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- Differing timetable – Scotland is running its own test in 2006 and procurement for this is in progress
- Currently 2008 Rehearsal
- Work together to meet the needs of UK data users
- Consistent UK outputs



# COFFEE BREAK



# Procurement Strategy

Catriona Flear

# Background for procurement

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- Involvement of other UK Census Offices
- Activities for contracting out
- Procurement strategy



# UK Census Offices

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- ONS, GROS & NISRA – aim for consistent UK outputs
- Recognise the differences and similarities between the different organisations and designs
- Joint working to achieve economies of scale, solutions that suit us all and consistency of quality of data

# Joint Contracts

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- Currently GROS & NISRA expect to be involved in all contracts except for Recruitment of field staff
- Working closely with both on developing requirements
  - Joint requirements – common to all
  - Specific – required for that country
- Final decision on involvement in contract will be made at the appropriate time

# Sourcing Strategy

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- Reviewed all activities within the design
- Recognised some are not our core competences
- Clear about what ONS must continue to be responsible for
- Identified interfaces between the activities
- Result:
  - A significant increase in what we are contracting out
  - Proposed minimum grouping of activities into contracts
  - Service contracts

# Activities for contracting out

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- Operational Intelligence & document tracking
- Data capture operations & web capture
- Printing (census questionnaires)
- Contact Centre (including web self help)
- Recruitment
- Payroll
- Training
- Printing (other matter)
- Logistics & warehousing
- Field supplies
- Translation Services
- Publicity
- Postal Services

# Issues

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- Time available within the timetable for 2011 Census
  - doesn't lend itself to the traditional procurement method of producing detailed specifications of requirements

# Key reasons

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- Key decisions later in the project
  - Preventing full specifications being developed early
- Some strategies still to be tested
  - Impact on detailed design and specifications
- Timing of Test and Rehearsal
  - Lack of time after evaluation of 2007 field test to tender and select final supplier

# Fitting the design & project plan

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- **Between now and Spring 2007**
  - procure and award contracts to support the 2007 Test
- **Spring 2007 to Spring 2009**
  - build final systems, integration testing and prepare for Rehearsal. Procure and award contracts for Rehearsal and Census
- **Spring 2009 to Spring 2011**
  - scale up, full operations, system testing through 2010
- **Spring 2011 to end of contracts**
  - completion of all work

# Procurement Strategy

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- We need a strategy that allows:
  - the final suppliers to work with us early in some activities to understand the complexities of the whole project
- Significant risk of change and escalating costs if detailed specifications were used now
- Outputs based
  - Specified where appropriate



# Phased approach

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- Build some systems and Test in 2007
  - Evaluation and agree final design
- Build all systems and integration testing in 2008
- Rehearsal in 2009
  - Evaluation and agree capacity
- Scale up for 2011 Census

# Grouping of activities

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- Reviewed
  - which activities have strong interfaces
  - which activities we want the final supplier in place for the 2007 Field Test
  - what ad hoc services we need for 2007
  - where we need the final supplier(s) in place for the 2009 Rehearsal onwards
  - where we should use existing government arrangements
- Proposed grouping of activities into routes

# Procurement Routes

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- Route A
  - Contract through Test, Rehearsal & Census
- Route B
  - Contracts for Test in 2007 only
- Route C
  - Contracts for Rehearsal and Census

# Activities grouped into Route A

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- Operational Intelligence & document tracking
- Data capture operations & web capture
- Printing (census questionnaires)
- Contact Centre (including web self help)
- Contract through to 2011
- Outputs based requirements
- Negotiated route
- 2 suppliers selected for 2007 test
- 1 supplier then awarded contract for ongoing work

# Route A Contract

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- Phased approach to selecting the supplier
- OJEU, PQQ - bidders list
- High level requirements – long list
- Specification of requirements – short list
- Select 2 suppliers
- Evaluation after 2007 Test – award contract

# After award of contract

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- Phased approach to delivery:
  - Agree stages and deliverables including testing plan
  - Understand capacity in each channel and decision points
- Build systems for Rehearsal in 2009
  - Evaluation after Rehearsal
  - Final adjustments to channels
  - Scaling up for Census

# Activities for Route B

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- Recruitment
- Payroll
- Training
- Printing (other matter)
- Logistics & warehousing
- Field supplies
- Contract to support the 2007 Test only
- Specified requirements
- Framework agreements or purchase order direct with supplier

# Activities for Route C

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- Recruitment
- Payroll
- Training
- Printing (other matter)
- Logistics & warehousing
- Field supplies
- Postal Services
- Decision on requirements and grouping after 2007 Test
- OJEU
- Framework agreements



# Other services required

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- Publicity
- Translation Services
- COI
- Framework agreements

# Challenges

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- Finding suppliers who can and will work with us over a long period
- Phasing to firm up on requirements
- Using latest technology while minimising risk
- Making the design cost effective without losing quality
- Incentivise suppliers



# Activities

Claire Stretch

Henrie Brown

# 2007 Field Test

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- Focus on effectiveness of enumeration strategy
  - delivery and collection methods for different population groups
  - enumeration targeting
  - address register development and quality assurance
  - response management and field communications
  - contact centre and website functionality
- Recruitment, payment and elements of training of field staff outsourced
- All supporting systems included, but some partial
- Aim to culminate in final 2011 Census Design
- 100,000 - 200,000 households?

# Recruitment - Employment Dates

	<u>2007</u>	<u>2009</u>	<u>2011</u>
Regional Managers	-	-	04/09-07/11
Area Managers	08/06-07/07	08/08-07/09	08/09-07/11
Pre-delivery staff	09/06-10/06	09/08-10/08	08/10-09/10
Team Managers	11/06-07/07	11/08-07/09	09/10-07/11
Delivery staff	01/07-05/07	01/09-05/09	01/11-05/11
Follow-up staff	04/07-07/07	04/09-07/09	04/11-07/11
Communal Establishment staff	01/07-06/07	01/09-06/09	01/11-06/11
Non-compliance staff	-	-	04/11-12/11

# Recruitment - Estimated Numbers

	<u>2007</u>	<u>2009</u>	<u>2011</u>
Regional Managers	0	0	10
Area Managers	0-2	0-2	300
Pre-delivery staff	130	100	5,600
Team Managers	40	30	2,000
Delivery staff	450	200	25,400
Follow-up staff	200	150	11,000
Communal Establishment staff	12	10	1,500
Non-compliance staff	0	0	400

# Recruitment - Key Issues

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- Recruitment is becoming increasingly difficult, particularly in certain parts of the country, such as the 'inner cities'
- Attracting suitable staff willing to work unsociable hours - evenings and weekends
- Balancing the pay likely to be on offer against the need to recruit suitable quality staff
- Coping with an increasing level of staff turnover
  - in 2001 was in the range 5% - 8%

# Payment - Key Issues

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- Improving the performance levels achieved in 2001 when some payments were made very late
- Simplifying the payment system whilst introducing a results/performance based element to pay, with possible terminal bonuses
- Improve management and reporting arrangements to ensure ONS and National Audit Office requirements are being met
- Assess the feasibility to procure the payment aspects as part of a contract that includes recruitment



# Training

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- Training programme complete ahead of employment dates for each role
- Consistent delivery & message
- Encompassing
  - Field technology
  - Routine tasks
  - Dealing with exceptions
- Delivery flexible to deal with staff turnover
- Must allow for significant variation in basic ability
- Delivered locally

# Public Interface - Publicity

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- Responsive to current events
- National and local
- Targeted media & messages to key groups
- Aims:
  - Encourage participation
  - Provide general information
  - Provide specialist information
- Reinforce legal requirement
- Support channel strategy

# Public Interface – Contact Centre

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- Contact Centre provides direct interface to public:
  - Supported by Web Self Help Facility
  - Scalable to meet unexpected demand
  - Activities include:
    - General enquiries
    - Requests for new/additional forms
    - Interface with Address Register & RMS/MIS
    - Help with form completion
    - Technical support for Internet completion
    - Requests for field visits
    - Translation & interpretation services
    - Telephone capture – targeted to specific groups
    - Telephone follow-up of incomplete forms

# Public Interface – Web Self Help Facility

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- Web Self Help Facility (WSHF) provides primary interface to public:
  - Backbone of information provided to Contact Centre
  - Dynamic & responsive to events & changing situation
  - Scalable to meet unexpected demand
  - Linked to publicity messages
  - Support to Field staff
  - Email requests & queries supported
  - Extensive translation support

# Address Register

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## NSAI (National Spatial Addressing Infrastructure):

- Delivered by Ordnance Survey in phases up to 2008
- supplies base Address information
- Around 24 million addresses
- ONS add Census related attributes – 2008 onwards

## Updates as result of pre-delivery check

- Sept 2008/Sept-Oct 2010

## Interfaces

- Printing - Jan-March 2009/ Dec 2010 – March 2011
  - address/form type/enclosure info/delivery type/delivery point sort code
- Basis of MIS/RMS - in use throughout Census period
- Contact Centre/WSHF for verification of address information
- Support to Coding & Output - April 2011 – Dec 2012

# Pre Delivery

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- Checks carried out
  - Sept-Oct 2008 for Rehearsal
  - Sept-Oct 2010 for 2011 Census
- Either all addresses, or targeting areas of change
  - Dependent on confidence in Address register & independent and local information on areas of change
- Activities
  - Capture additional addresses
  - Verify existing addresses
  - Capture additional attributes

# Printing (1)

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## Questionnaires

- depends on outcome of Channel Strategy work – max 30+ million(UK)

## Several types of forms

- (household/communal/individual)

Currently to be printed English & Welsh – other variations still under discussion

## Printing in several tranches starting after Pre Delivery

- Jan-March 2009/ Dec 2010 – March 2011

## Personalise each form with address & link to unique formid

- forms basis of Response Management System

## Information leaflets for delivery/ envelopes for return

## Mail merge appropriate documents

## Enclose

## Sort for delivery

Need to consider post out & return requirements from Postal provider

# Printing (2)

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- All other documentation, including
  - Training material
  - Recruitment material
  - Pay documents
  - Translation leaflets
  - Publicity
  - General information leaflets



# Translation

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- All public documents (including training) must be in both English & Welsh
- Scotland & NI position?
- Translation of supporting information into other languages
  - In 2001 there were 26 languages supported
  - Languages required likely to change, and ideally more languages supported in 2011

# Logistics & Warehousing (1)

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- Storage & distribution for:
  - Replacement/ spare/ alternative Census questionnaires
  - Field documentation
  - Other documents & literature
  - Field supplies
- Stock control system
- National distribution requirement
  - England & Wales
  - Scotland & NI?

# Logistics & Warehousing (2)

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- Collection
  - Secure transport of completed questionnaires
  - Documentation & literature: unused & finished with
  - Field supplies (incl. any high value items)
- Disposal
- Interfaced with:
  - Operational intelligence system
  - Public help facilities
    - Back office fulfilment

# Delivery

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- April 2009 for Rehearsal
- April 2011 for 2011 Census
- Postal delivery
  - 18-22 million
  - Record undeliverable (vacant/demolished)
- Hand Delivery
  - 2-6 million
  - Find new addresses, capture, link to formid & deliver
  - Record delivery status (delivered/ vacant/demolished)

# Response

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## Paper

- April-June 2009 for Rehearsal
- April-June 2011 for 2011 Census
- Postback direct to processing centre
- 5 million returns a day at the processing centre in 2001
- Ideally returns receipted within 24hrs of arrival, must be receipted before start of follow-up
- Receipt recorded on Response Management System

## Internet & Telephone

- April-June 2009 for Rehearsal
- April-June 2011 for Census

# Non-response Follow-up

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- Impossible to accurately predict
  - Between 5% & 20%
  - Higher in some areas
- Field follow-up in April-June 2011
- Activities
  - Addresses to be followed-up provided by RMS
  - Interrogate RMS on doorstep – ideally real-time
  - Record result of follow-up
    - No contact/ replacement delivered/ refusal/ success
    - By date & time
  - Deliver replacement form
  - Collect completed form

# Non-Compliance

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- 400 – 500 Field Staff
  - Recruitment aimed at (but not exclusive to) ex-police and ex-military personnel
  - Operate in teams of 2
  - Required nationally but with specific geographical areas to cover
- Required to take forward refusals to prosecution:
  - Interviews under PACE
  - Developing the prosecution supported by ONS and legal representatives
  - Giving evidence in court

# Operational Intelligence

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- Required to support all activities from Recruitment to Output
- MIS requirement
  - Area levels
    - Government Office Region/Local Authority/Census Area Manager/Regional Manager/Team Manager/Output Area etc
  - Counts of respondents by channel
  - Counts of non-respondents
  - Analysis of follow-up actions
  - Record of information for pay purposes
  - Enabling dynamic allocation of field staff
  - Analysis of result of dynamic allocation of field staff
  - etc....



# Data Capture operations – Set-up

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- Software development – from 2007 test to 2011 Census
  - Paper/web/telephone capture
  - Coding
  - Image management
  - Partial follow-up
  - Workflow
- Lead time for getting suitable accommodation in area where appropriate staff can be recruited
  - for 2001 Census site was acquired in November 2000
- Accommodation – processing site & warehouse
  - Staffing
  - Training
  - Payroll
  - Security
- Hardware acquisition
- Software deployment
- Operational Readiness Testing

# Data Capture - Paper

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- From arrival of first completed form to Census day + 20 weeks
- After receipting – forms boxed & stored
- Ready for processing – de-envelope & guillotine spines
- Scan & recognise marks & characters
- Partial completion & blank form checks
  - approx 1.3 million
  - Route blank questionnaires for field follow-up via RMS
  - Find telephone number for partial completion
  - Route partial information to contact centre via RMS
- Key correction of characters failing automatic confidence levels
- Route data to coding

# Data Capture – Internet & Telephone

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- Internet
  - Unclear what level of internet take-up is likely
  - Channel Strategy to be developed in partnership with chosen supplier to understand the trends in internet usage over next 5 years & define target take-up levels
- Telephone Capture
  - Operation within Contact Centre
  - Limit use to specific groups – possibly extend during follow-up
- Available from start of delivery to end of follow-up
  - Approx 3 weeks before to 8 weeks after Census day
- Secure authentication using unique form identifier & address via RMS & Address Register
- Create Images of data captured for archive purposes
- Route data to coding

# Data Capture - Coding

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- Code text responses from all channels
  - Simple (simple classifications)
  - Complex (occupation & industry information)
  - Address (may be carried out within ONS)
- Majority coded automatically
- Remainder coded interactively
- Coding indexes supplied by ONS
- Corporate coding tool available, but not mandated to suppliers

# Data Capture – Coding Volumetrics

<b>Question</b>	<b>Volume Coded</b>	<b>% Coded Automatically</b>	<b>% Coded Manually</b>
Country of Birth	3,780,151	81.6	18.4
Religion	1,045,874	74.4	25.6
Ethnic Group	3,866,964	75.7	24.3
Address 1 year ago	4,720,878	83.6	16.4
Workplace address	22,056,446	71.8	28.2
Industry	27,970,005	66.8	33.2
Occupation	29,611,276	72.2	27.8

# Data Capture – Delivery & Closedown

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- Merge data from all channels
- Deliver data & images to ONS
  - current requirement is for daily delivery
- Prepare images for archive
- Recycle paper questionnaires
- Degausse equipment
- Decommission site

# Questions

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- Any further questions
- Copies of today's presentation and additional information will be available on the National Statistics web site at:
  - <http://www.statistics.gov.uk/about/Census/census2011/research.asp>
- Any questions after today should be directed to Jane Dumayne at the ONS Procurement Unit

# Informal discussions & Coffee

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- Coffee
- Thank you for attending