

Supporting policy-relevant research using the Northern Ireland Longitudinal Study (NILS)

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Outline

- Overview of the NILS
- 2011 Data Linkage
- Policy Outreach
- Research Themes: Transitions
- Research Themes: Inequalities
- Resources

Background

Research-Driven

- Cross-sectional studies: change over time?
- ONS-LS since 1971 Census (SLS since 2006)
- Health & socio-demographic profile

Legislation

- NILS confidentiality protected, managed under census legislation
- NISRA have consulted:
 - Information Commissioner for Northern Ireland
 - Office of Research Ethics NI
 - Health and Social Care Privacy Advisory Committee

Funding

- Infrastructure funded by the HSC R&D Division & NISRA
- Research funded by ESRC Census Programme & NI Government (OFMDFM): future implications + +

Overview

Northern Ireland Longitudinal Study (NILS) – 28% sample (c. 500,000), based on health card registrations, routinely linked to:

- 2001 Census & 1991 Census (part)
- vital events (births, deaths, marriages)
- change of address/migration (health card registration)

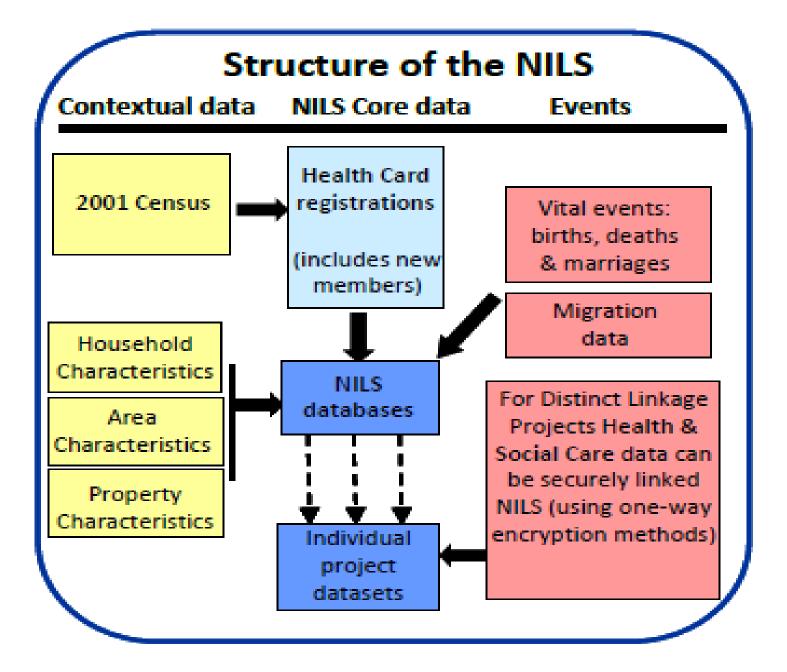
AND potential to link to

- distinct Health & Social Care datasets
- 2011 Census

Northern Ireland Mortality Study (NIMS) - total

enumerated population on 2001 Census Day linked to:

- 2001 Census returns
- subsequently registered mortality data

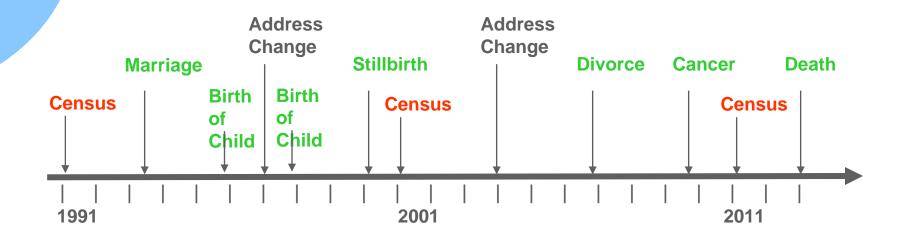


Datasets Currently Available

GRO Vital Events Data
 New births into the sample Births to sample members Stillbirths to sample mothers Infant mortality of children to sample members Deaths of sample members Marriages Widow(er)hoods
Health Card Registration Datasets
Demographics: age, status & location Migration: - Immigration to the sample - Emigration out of sample - Re-entry of sample members to NI - Internal migration

Example

27-year old Female in 1991



2011 Data Linkage

- Information from two censuses (2001 & 2011), significant information from 1991 Census & 14 years of vital events data
- Time-scales
- Approvals Process (facilitate policy use of the NILS by nonacademic users / Beta Testing Projects)
- Focus on:
 - analysis of health, social, economic & demographic transitions between the two census points; and
 - research & policy interests across health, demography, equality, migration, deprivation, labour market & social change

Policy Outreach

- Policy-makers signpost research priorities (e.g. Programme for Government and today!)
- Government staff involved in NILS projects
- Researchers engage policy-makers with their proposals & findings:
 - Applications must have publicity & dissemination strategies with specific policy-impact and clear stakeholder engagement
 - NILS Research Briefs: summary of key findings & policy implications of NILS-based research

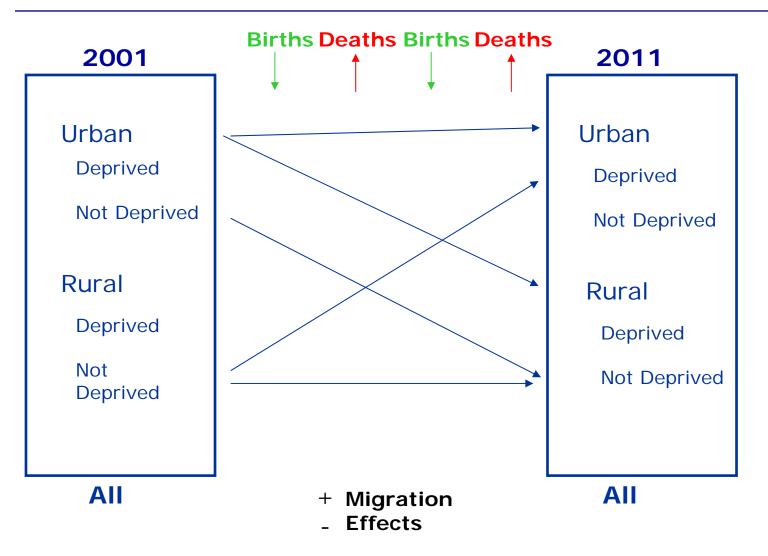
Research Potential: Collaborative Government Projects

- Temperature-related mortality & housing / Movement between and within Neighbourhood Renewal Areas (DSD)
- Distribution of cancer deaths by population & household type (NI Cancer Registry)
- Projected fertility levels by area & community background (DENI)
- Vital events: Annual Standard Table Outputs (DMB)
- Educational attainment, occupational group & mobility (DEL)
- Pervasive area poverty: modelled household income / Section 75 groups & social disadvantage / Spatial measures of need (OFMDFM)
- Equality assessment of health outcomes: cause-specific mortality for Section 75 groups (DHSSPS)

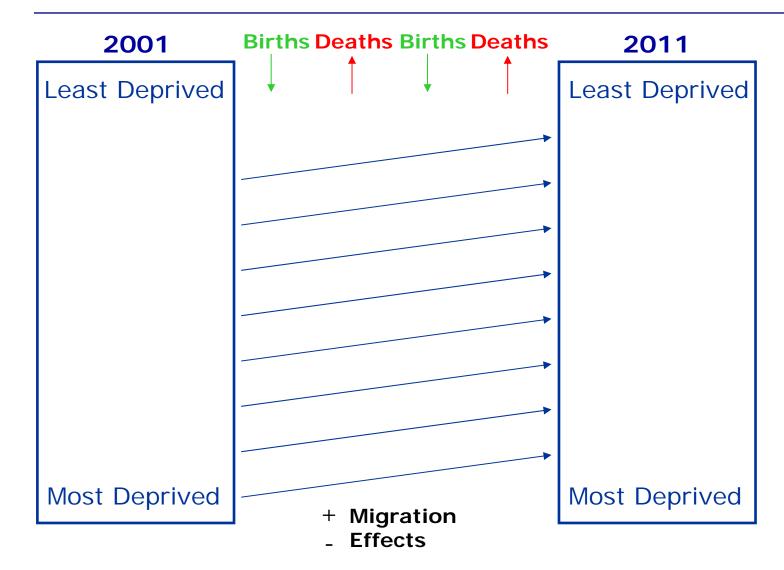
Research Themes: Transitions

- Enables analyses of 'NI in Transition 2001-2011'
- Breadth of topic areas to be considered is wide
 - What influences social mobility in NI?
 - Stability of housing tenure
 - Importance of community background in labour market
 - Impact of ill-health in 2001 on labour market status in 2011
 - Who emigrates?
 - The internal migration patterns of immigrant communities?

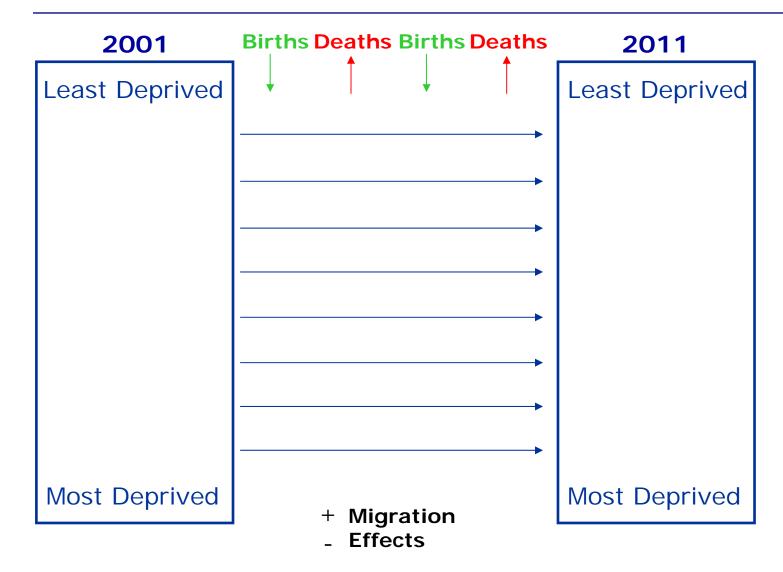
Population Mobility



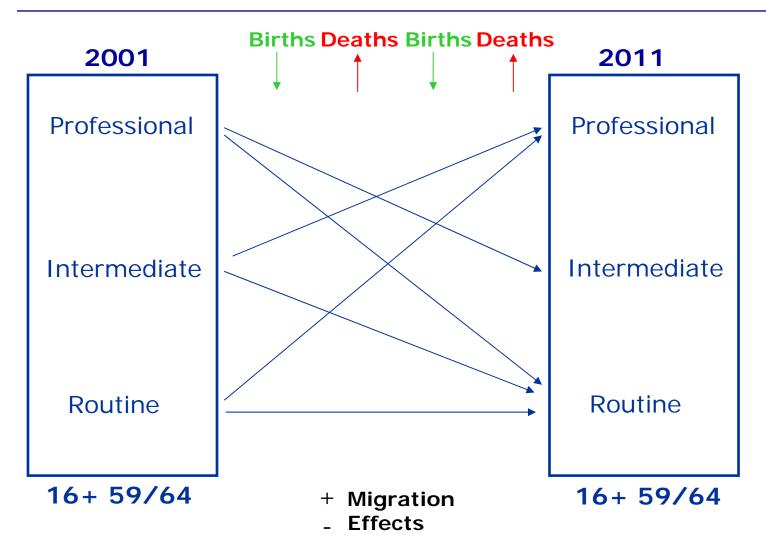
Area Change - Policy Intervention



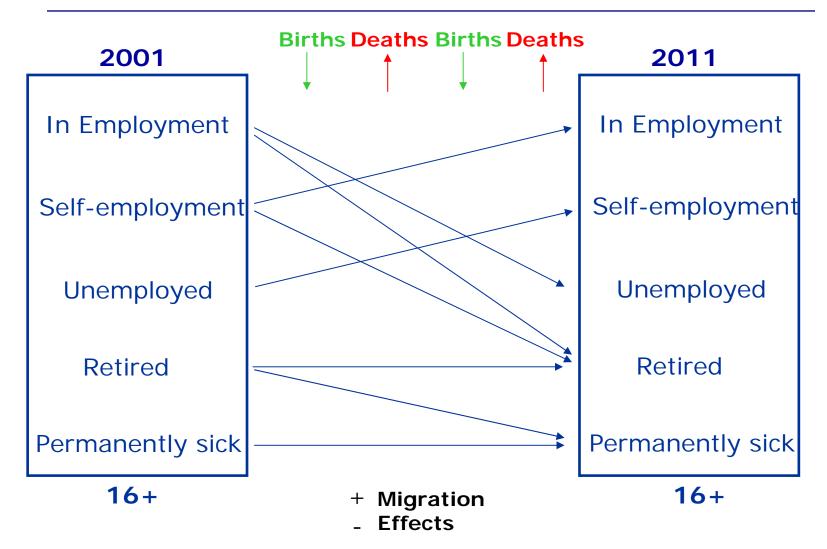
Area Change - No Policy Intervention



Social Mobility



Economic Mobility



Research Themes: Inequalities

- Health & mortality
- Demographic trends
- Socio-economic trends: education, employment & income
- Area-based analyses
- Equality research e.g. Section 75 groups

2011 Census: New Topics = New Research Potential

Equality Research

- Same-sex partnerships
- Language
 - ability in Ulster-Scots
 - main language (if not English, asked how well they can speak English)
- Migration (how long intend to stay)
- Citizenship (what passports they hold)
- National identity

Socio-Economic Trends

- Information on qualifications gained outside the UK
- Voluntary Work

Area-based Analyses

Travel to school / address of study

2011 Census: New Topics = New Research Potential

Health & Mortality

Changes: General health - 5 options : Very good; Good; Fair; Bad & Very bad Limiting long-term illness - 3 options: Yes, limited a lot; Yes, limited a little, No

New:

- Adapted accommodation
- Nature of disability (2001: General Health & LLTI only)
- Deafness or partial hearing loss
- Blindness or partial sight loss
- Communication difficulty
- A mobility or dexterity difficulty
- A learning difficulty, an intellectual difficulty, or a social or behavioural difficulty
- An emotional, psychological or mental health condition
- Long-term pain or discomfort
- Shortness of breath or difficulty breathing
- Frequent periods of confusion or memory loss
- A chronic illness (such as cancer, HIV, diabetes, heart disease or epilepsy)
- Other condition

Resources: NILS Research Support Unit (NILS-RSU)

Remit:

- raise awareness of the NILS research potential; get new users
- assist with development of research ideas and projects;
- facilitate access to NILS data;
- Training and advice in use and analysis of NILS datasets;
- promote policy relevance; and
- enhance NILS research capacity incl: specific duty to assist government researchers to undertake exemplar public policy research.

Resources: NILS Research Support Unit (NILS-RSU)

Remit:

- See <u>http://www.qub.ac.uk/research-</u> <u>centres/NILSResearchSupportUnit/</u> for documents/application forms;
- Projects must have a health dimension (but very broadly defined) and be longitudinal (eg only possible using the NILS)
- Straightforward projects using the database can expect to be undertaken quickly
- Some projects which involve linking data to the NILS can take more time because of the need for ethical approval and data undertakings to be completed

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