

Informing planning policy and practice - All-Island Research Observatory (AIRO)

Justin Gleeson – AIRO, NIRSA, ICLRD



Introduction

- Update on the development of AIRO
- The Atlas of the Island of Ireland



All-Island Research Observatory

- SEUPB funded 6 month pilot study;
- NUIM, QUB, DKIT
- Set of recommendations to funders for the development of a system
- Main focus was towards the collection and dissemination of 'cleaned', 'compatible' and 'reliable' cross border data to users
 - Publications, Contact information, Statistics, Maps, Priority Indicators etc
- Provide planners and policy makers with useful information to better enable regional planning
 - Cross Border Region but to be extended to all NUTS111 regions



Cross Border Regional Research Observatory - Microsoft Internet Explorer

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Address http://nrsa-rr.o.nuim.ie/nrsa/index.php

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Events

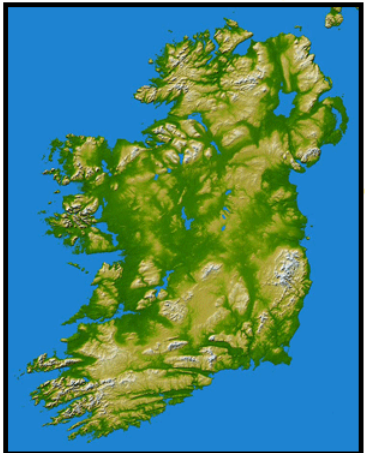
2007-11-15 :
 Regional Studies, ICLRD & AIRO - SUPPORTING EVIDENCE-INFORMED SPATIAL PLANNING AND ANALYSIS CONFERENCE, 15 NOVEMBER 2007

2007-11-21 :
 ICLRD Annual Conference, Armagh City

Home

This site provides a complete single point of access to data, information and intelligence about the regions of Ireland.

The Regional Research Observatory (RRO) collects, analyses and presents evidence to support policy making within the regions of Ireland. The RRO's primary dissemination tool is this website and it comprises a number of specialist modules to assist planners and policy makers. The RRO acts as a directory of data and links to sources of data within the regions of Ireland.

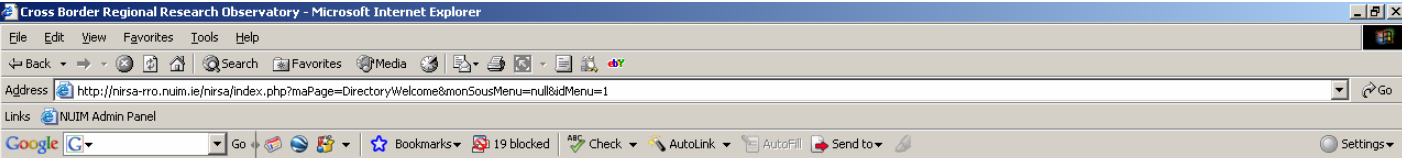


There are 8 individual regions within the island of Ireland (Border/Northern Ireland, Dublin, Mid East, Midlands, Mid West, South East, South West and the West).

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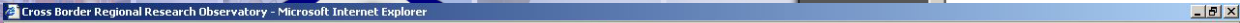
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All Island Atlas : The All Island Atlas of Ireland - Mapping Social and Economic Change is nearing completion and will be published in December 2007

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Demographics and Population

Result : 6 organisation(s)

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Central Statistics Office

- **Region :** Republic of Ireland
- **Website :** <http://www.cso.ie/>
- **Address :**
CSO Cork
Skehard Road,
Mahon,
Cork
Co. Cork
- **Address :**
CSO Ardee Road office
Ardee Road,
Rathmines,
Dublin 6.
Co Dublin
- **Address :**
CSO Swords office
Swords Business Campus,
Balheary Road,
Swords,
Dublin,
co Dublin
- : +353-21-4535000 (Cor)
- : +353-1-4984000 (Dubl)
- : information@cso.ie



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The principal planners and A wide variety of Ireland both information w

The RRO aims releases. User's may re

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Demographics and Population

Result : 20 publication(s)

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Age and Marital Status 2002

- **author** : CSO
- **date (Year/month/day)** : 2003-07-01
- **abstract** : This second volume of the detailed census report presents the population classified by age, sex and marital status for different territorial divisions of the country.

- **link** : [download](#)
- **Organisation** : Central Statistics Office

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Age and marital Status 2006

- **author** : CSO
- **date (Year/month/day)** : 2007-05-01
- **abstract** : This second volume of the detailed census report presents the population classified by age, sex and marital status for different territorial divisions of the country

- **link** : [download](#)
- **Organisation** : Central Statistics Office

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Address http://10.209.2.16/nirsa/index.php?idYear=28maPage=Mapping&monSousMenu=38idThematic=18idIndicator=23

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2. Priority Indicators : Age Band 65 - Plus

3. Year : 2001/2002

Normal Map Cartogram

Author : RRO

Cartogram X: Persons Aged 65 Years plus
As a percentage of total population, 2001/02

% Age Band: 65 Plus	Roll Average: 11.13%
19 plus (373)	NI Average: 13.25%
14 to 19 (1193)	
12 to 14 (815)	
10 to 12 (723)	
6 to 10 (726)	
0 to 6 (166)	

Regional Boundary



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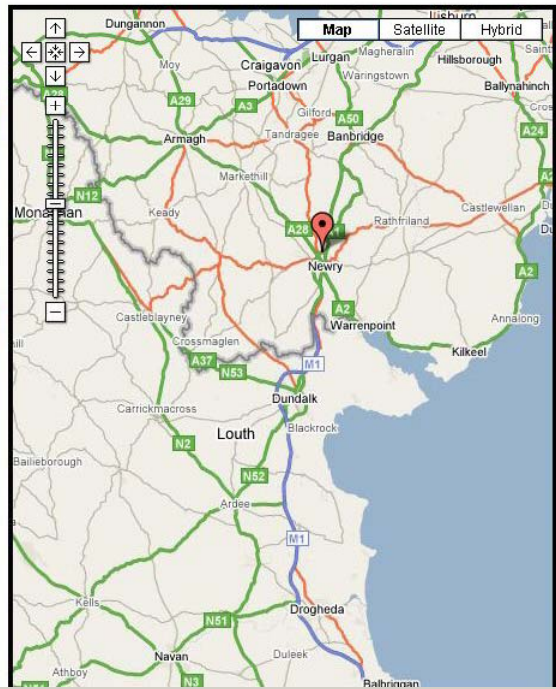
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Script



X : 308076

Y : 328723

radius (km):

please choose from the following variables :

- Age Bands
- Housing Type and Tenure
- population
- Religion

Year of analysis

- 2001
- 2002/2003

Type of stat

- Excel chart
- Excel Stats
- Word profile

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NWG_CensusProfile.doc - Microsoft Word

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

Socio-economic data for the following study area has been derived from information available through the Central Statistics Office in the Republic of Ireland and the Northern Ireland Statistics and Research Agency. The following data has been aggregated using a population/residential weighting methodology. Data is based on the RoI 2002 DED level and NI Output Area level geographies.

****Population**

The total population for the study area has been calculated as: 227589. Of this figure 49.33% and 50.68% represent the Male and Female population respectively.

The population of the Study Area has been broken down into 5 different age bands i.e. 0 to 14, 15 to 24, 25 to 44, 45 to 65 and 65 years plus. The youngest age grouping represents 26.09%, the 15 to 25 year old age band represents 14.54% of the population, the 25 to 44 age band represents 29.4 % and the 45 to 64 year age band represents 19.9%. The old age grouping of 65 years plus represents 10.09%. The dependency ratio of an area looks at the young (0 to 14) and the old (65 plus) population in relation to the remainder. The dependency ratio for this study area is 0.57%

****Marital Status**

For the purpose of this Census Profile Marital Status has been separated into 3 main groups i.e. Married, Separated and Single

Draw AutoShapes



Regional Research Observatory - Mapping Module

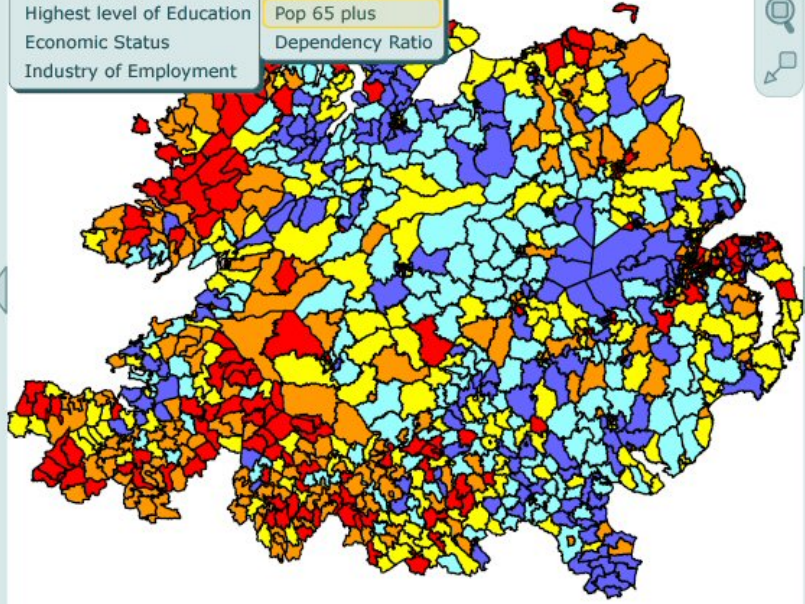
- sharing information and intelligence across the Border Region

Population - Percentages >> % Pop: 65 plus

Click to map indicator

Data Filter Notes Reset

- Population - Figures
- Population - Percentages
- Marital Status
- Religion
- Household Composition
- Housing Tenure
- Housing Type
- Highest level of Education
- Economic Status
- Industry of Employment
- Total Population
- Total Male
- Total Female
- Pop 0 to 14
- Pop 15 to 25
- Pop 24 to 44
- Pop 45 to 64
- Pop 65 plus
- Dependency Ratio



DED or Ward Name	Data
Abbey	24.81
Abbey Park	13.16
Academy	17.17
Achonry East	18.43
Achonry West	15.04
Aclare	20.71
Aghabog	10.89
Aghacashel	12.16
Aghagallon	10.22
Aghalateeve(027)/Aghavog	15.67
Aghanagh	15.66
Aghanlish	16.67
Aghanloo	5.89
Aghavas	15.85
Agivey	14.87
Ahoghill	11.52
Aldergrove	6.57
Altmore	12.03
Altnagelvin	7.44
Altnapaste	16.26
Andersonstown	19.29
Anketell Grove	10.8
Annaduff	15.24

Palette Legend

Wards_DED_simplify1.MIF
Quantile Legend Type

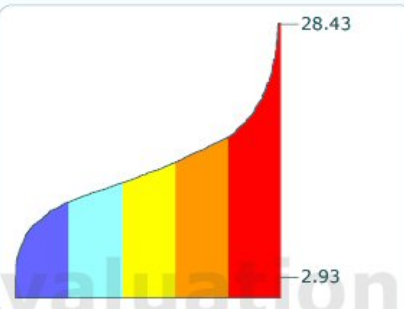
- 2.93 - 10.42
- 10.43 - 12.32
- 12.33 - 14.34
- 14.35 - 16.84
- 16.85 - 28.43

Counties_Districts.MIF

1 of 46

Download Data

Help Report



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Future Developments

- Continuation funding via SEUPB has stalled.
 - 1 post, 4 student interns, data and software costs
 - Priority indicators, Website development and populating, Geo-tool development, data gathering and analysis
 - Create steering group to shape the future of AIRO
 - Development hampered: lack of funding to purchase required software and datasets (OSI, OSNI etc)
 - Some developments undergoing; HEA funding (PRLTI, 3 yrs)
 - Website developments, generating cross border datasets etc
- AIRO has primarily focussed on developing
 - The Atlas of the Island of Ireland – Mapping Social and Economic Change
 - Priority indicators



The Atlas of the Island of Ireland – Mapping Social and Economic Change

THE ATLAS OF THE ISLAND OF IRELAND Mapping Social and Economic Change

JUSTIN GLEESON, ROB KITCHIN, BRENDAN BARTLEY,
JOHN DRISCOLL, RONAN FOLEY, STEWART FOTHERINGHAM AND CHRIS LLOYD

The All-Ireland Atlas of Ireland: Mapping Social and Economic Change provides for the first time a set of full colour, detailed maps and cartograms for a range of variables across the whole island of Ireland. Such maps have traditionally been difficult to produce because data are often incompatible due to differences in data collection across jurisdictions. The Atlas provides a fascinating insight into population, housing, transport and the economy across the island and how these have changed since 1991.



THE ATLAS OF THE ISLAND OF IRELAND Mapping Social and Economic Change



JUSTIN GLEESON, ROB KITCHIN, BRENDAN BARTLEY, JOHN DRISCOLL, RONAN FOLEY,
STEWART FOTHERINGHAM AND CHRIS LLOYD

Funded by the Department of the Environment, Heritage and Local Government

Atlas developed by members of AIRO and ICLR D



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62 variables mapped for the Island of Ireland in 1991 and 2001/02

General Demographics: Age Bands, Dependency Rate, Religion, Marital Status

Housing, Travel and Transport: Cars per HHld, Distance to Work, Household Tenure and Type

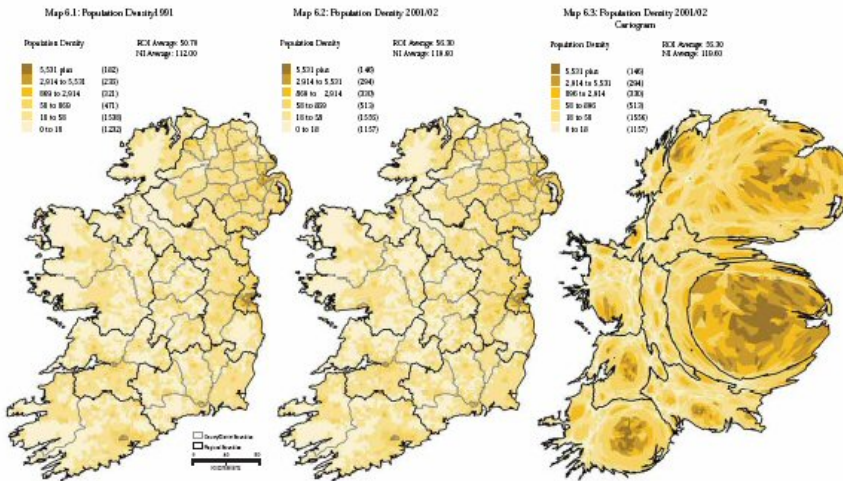
Economy: Labour Force Participation, Economic Dependency, Industry of Employment



Atlas Format

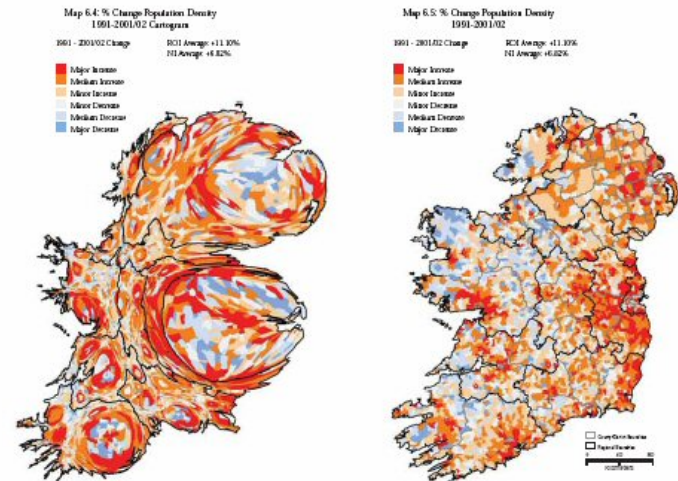
- Each variable is explored across a double page spread
- Left hand page: Maps of the relevant variable in 1991 and 2001(NI)/2002(ROI) and a Cartogram of 2001/02 data
- Right hand page: Map and Cartogram of change from 1991 – 2001/02
- Textual description comes from members of ICLRD

THE ATLAS OF THE ISLAND OF IRELAND
POPULATION DENSITY: PERSONS PER km²



Maps 6.1 and 6.2 reveal that large parts of the island have low population density. Unsurprisingly, as the cartogram of population density (Map 6.3) makes clear, the highest concentrations of people are found in the cities, with significant proportions of Dublin, Belfast and Cork in particular having over 3000 per km² of population per km². This pattern is relatively stable, although there are distinct patterns of increasing and declining population. Between 1991-2001 there was significant change in the absolute numbers of people living across the whole island. Despite the gradual growth of its population in the North and the rapid growth in the South, many areas continued to experience population decline, mainly through out-migration. These areas included a large number of

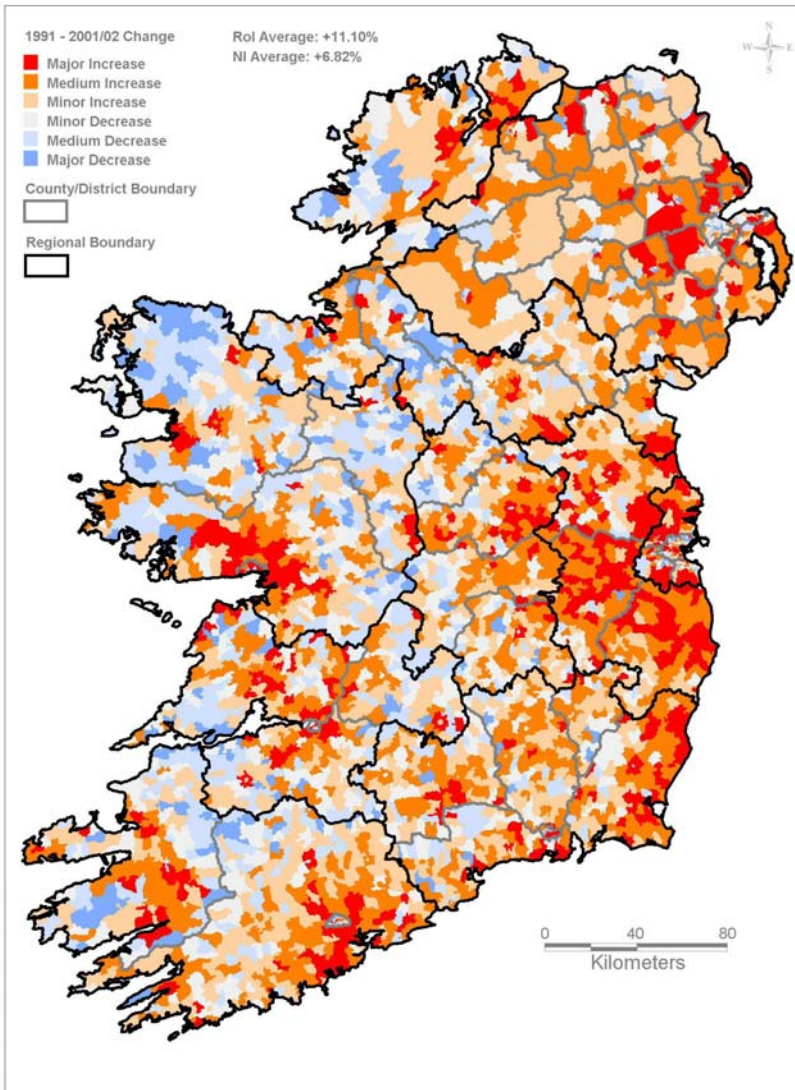
THE ATLAS OF THE ISLAND OF IRELAND



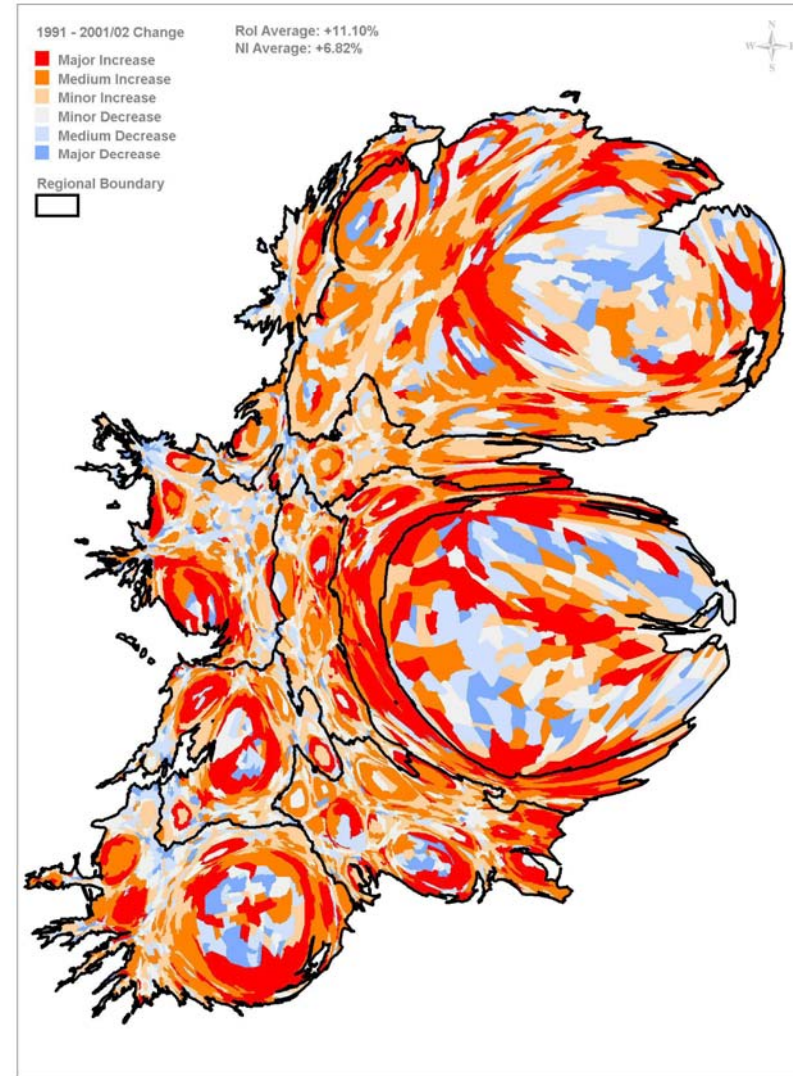
the western seaboard including north Donegal, western Mayo and north Cork, portions of the midlands (see Map 6.3) and, as revealed by the change cartogram (Map 6.5), the inner suburbs of the major cities including Belfast, Dublin, Cork, Limerick and Manchester, though largely excluding Galway. The cartogram also reveals that while rural depopulation is, and continues to be, a cause of concern, as a proportion population decline is most significant in the cities. In terms of rising population density this has been most significant in inner city cores in the South (though not in the North), the outer suburbs, and commuter areas surrounding the major towns and cities.



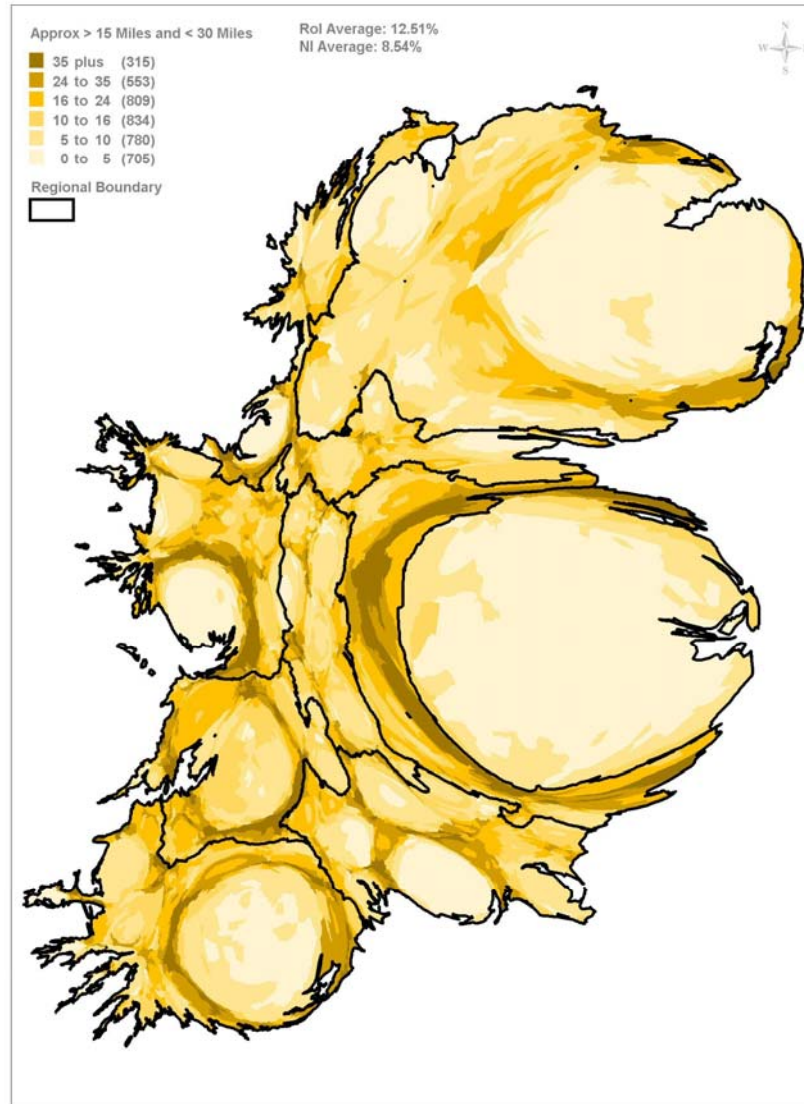
Population Density Change 1991 - 2001/02



Population Density Change 1991 -2001/02 - Cartogram



% of Workers Travelling > 15 Miles and < 30 Miles



Conclusion

- Work with cross border data towards
 - Development of comparable datasets at a local, regional and national level
- Dissemination of useful processed output to planners and policy makers
 - Completed Maps, Easy to use Mapping Tools, Charts and Graphs, Priority Indicators etc
 - Provide **added value** to raw spatial data developed by NISRA, CSO, OSI, OSNI etc
 - Cross-border and individual NUTS 111 regions
- Work with key data organisations North and South
- Work towards the better harmonisation of data sets north and south

