

Implementing a Framework for Collaborative Action Spatial Strategies on the Island of Ireland

Session 2: Implementing Cross-Border Spatial Planning

All-Island and Cross-Border Data

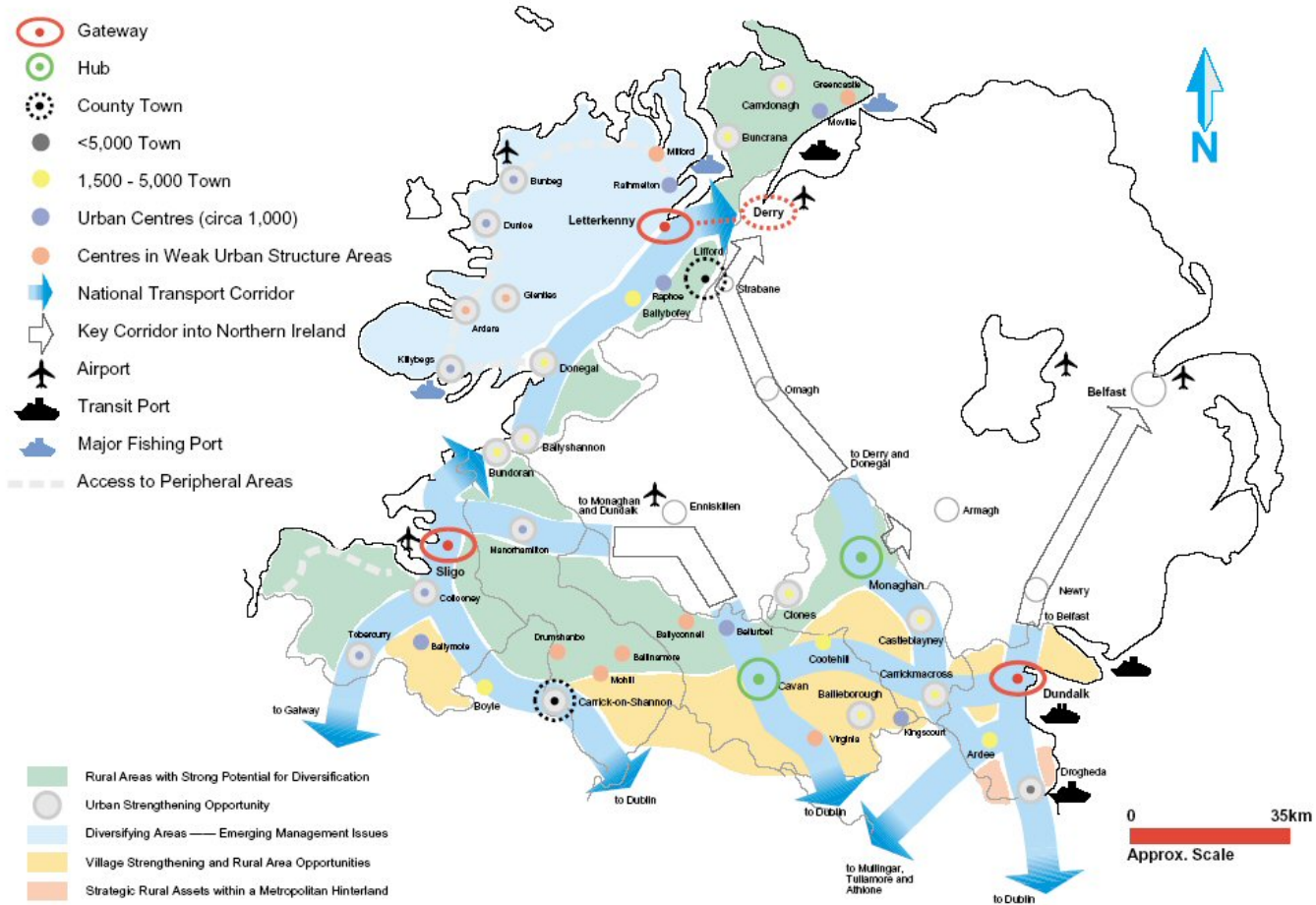
Prof. Rob Kitchin

NUI Maynooth

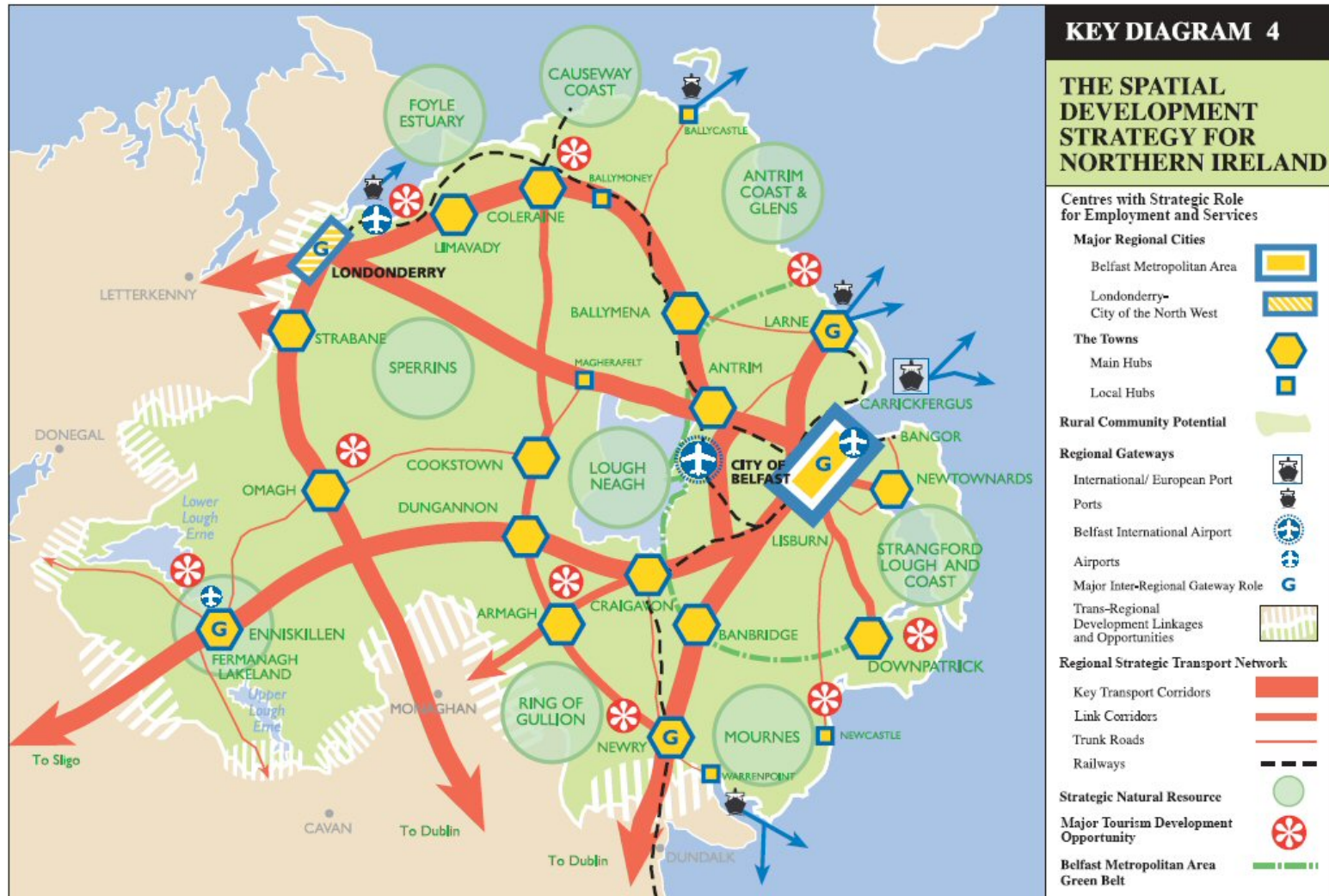
Canal Court Hotel, Newry, 9 November 2006



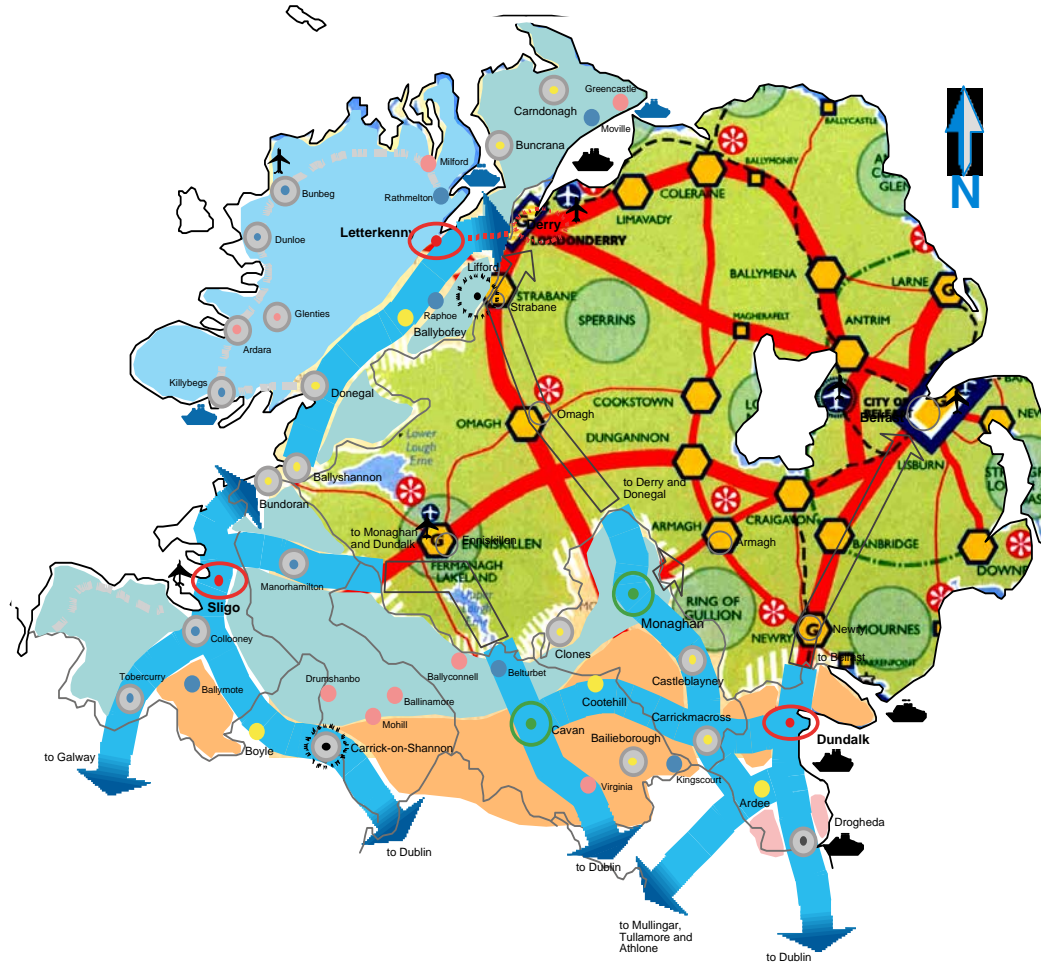
Back-to-back: NSS - Border Region



Back-to-back: RDS - Northern Ireland



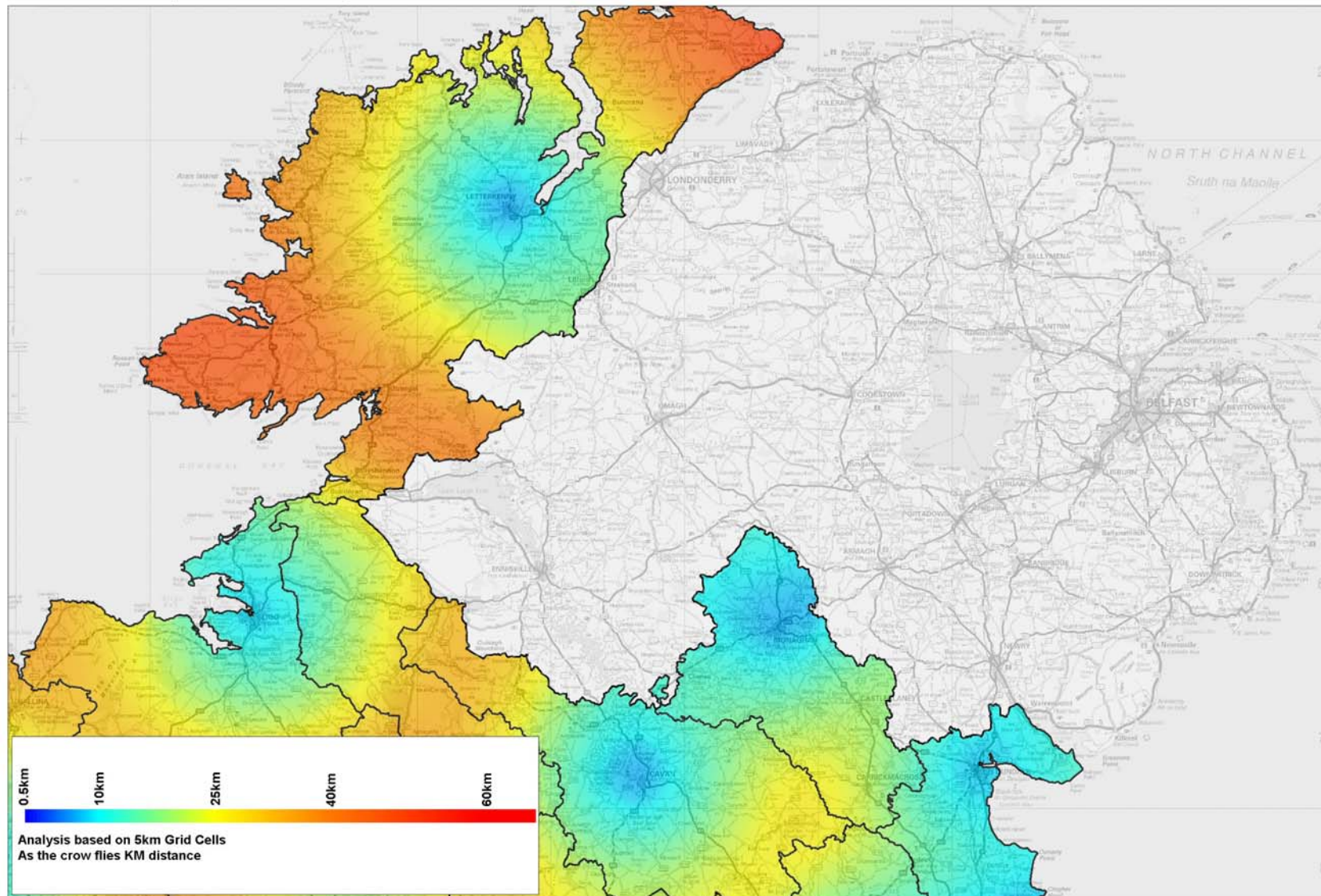
Joined up



*** Needs evidence base to guide policy ***



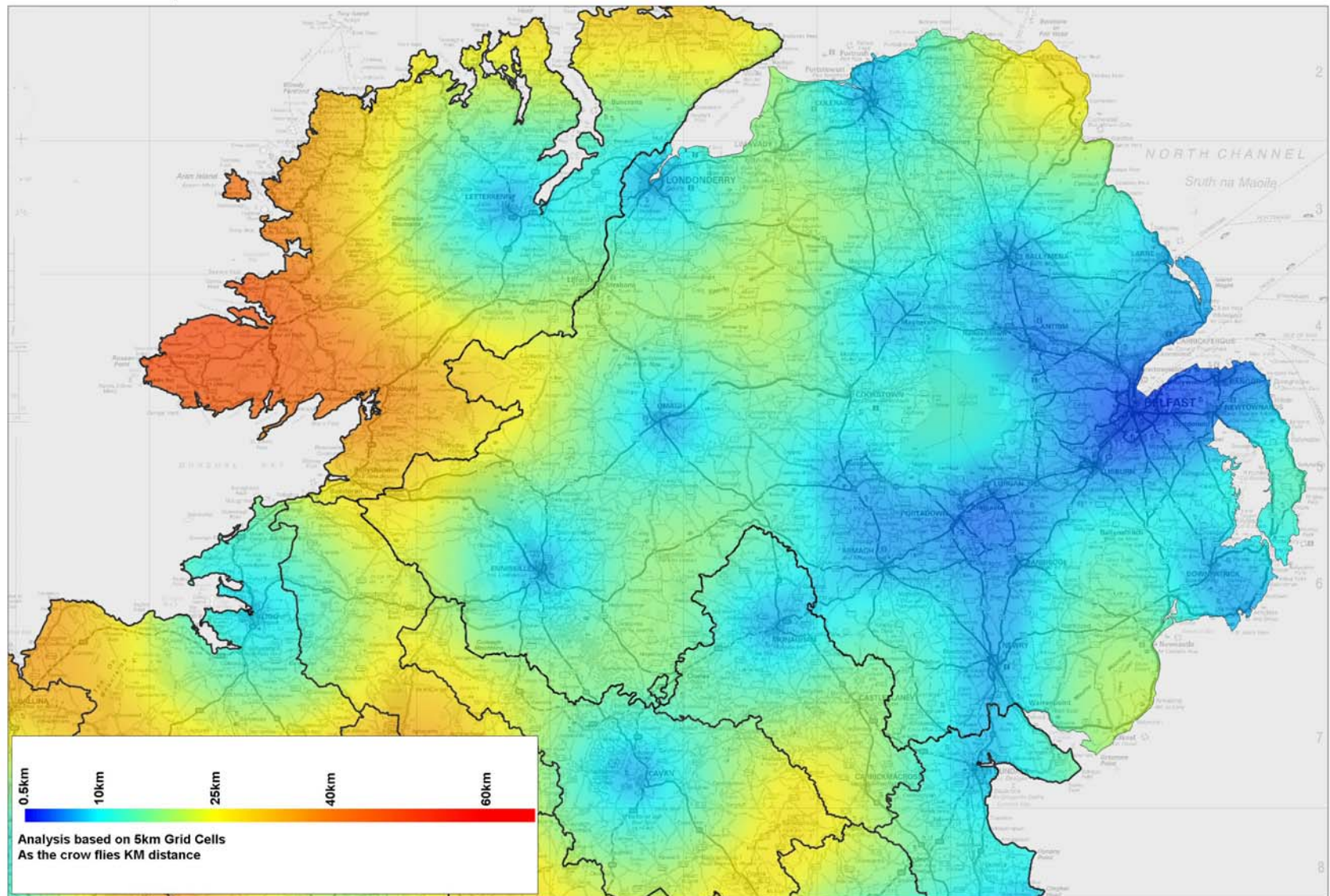
Access to Hospitals in the Republic of Ireland - distance in KM's



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Access to Hospitals in Ireland - distance in KM's



Present difficulties in providing evidence base

- 1) *Availability*
 - Data are not available or only has limited availability or are only available at certain scales (e.g., the national but not at regional or county-level).
- 2) *Sourcing*
 - Some data are difficult to source because they are not openly published or not published at suitable scales for meaningful analysis. It is not always clear who is responsible for compiling some data.



Present difficulties in providing evidence base

- 3) *Questions and what is being measured*
 - Survey instruments between jurisdictions often vary in terms of the questions being asked, or are measuring related but subtly different phenomena.



RoI	NI	Same
<p>If your accomodation is rented how much does your household pay?</p> <p>- Answer in €'s and frequency</p>		No
	<p>Over the last 12 months would you say your health has been:</p> <p>Good/Fairly good/Not Good</p>	No
<p>What is the nature of the occupancy of your household's occupation?</p> <ul style="list-style-type: none"> • Owner occupied where loan or mortgage repayments are being made • Owner occupied where no loan or mortgage repayments are being made • Being purchased from a Local Authority under a Tenant Purchase Scheme • Rented from a Local Authority • Rented unfurnished other than from a Local Authority 	<p>Does your household own or rent the accommodation?</p> <ul style="list-style-type: none"> • Owns outright • Owns with a mortgage or loan • Pays part rent and part mortgage (shared ownership) • Rents <p>Lives here rent free</p>	Part



Present difficulties in providing evidence base

- 4) *Data units and categories*
 - Data measurement between the jurisdictions can collect data into different data units, but analysis can also classify data into different categories making comparison between jurisdictions tricky because like is not always being compared with like.



Present difficulties in providing evidence base

- Social Class/Social Grade
 - RoI
 - Professional Workers
 - Managerial and technical
 - Non-manual
 - Skilled manual
 - Semi-skilled
 - Unskilled
 - All other gainfully occupied
 - NI
 - AB. Higher and intermediate managerial / administrative / professional
 - C1. Supervisory, clerical, junior managerial / administrative / professional
 - C2. Skilled manual workers
 - D. Semi-skilled and unskilled manual workers
 - E. On state benefit, unemployed, lowest grade workers



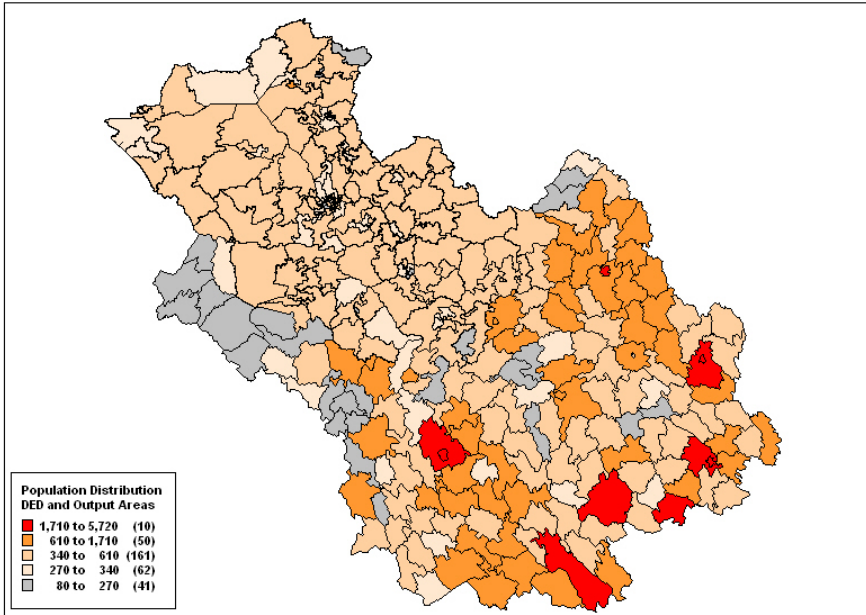
Present difficulties in providing evidence base

- 5) *Spatial scales*

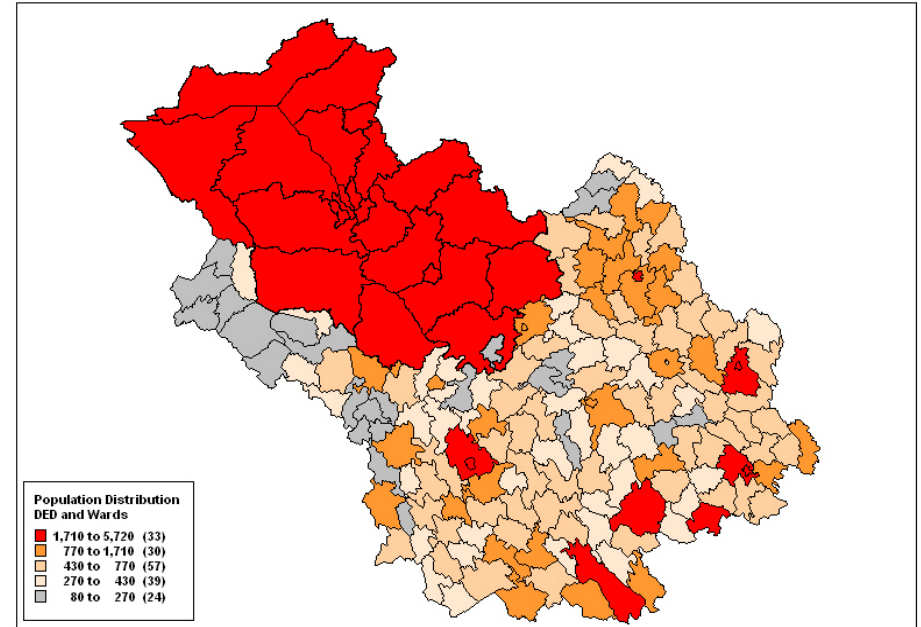
- Data across jurisdictions are not necessarily collected or reported at the same spatial scales. MAUP issues.
- Rol: National, NUTS 111, County, DED
- NI: National, NUTS 111, District, Wards, SOA, OA

Unit	Number	Av. Population	Av. Size (KM sq)
DED's	3414	1062	20.4
OA's	5022	337	2.8
Wards	582	3000 approx.	24





Population Count 2001/02
Cavan and Monaghan DED's
Fermanagh OA's



Population Count 2001/02
Cavan and Monaghan DED's
Fermanagh Ward's



Present difficulties in providing evidence base

- 6) *Synchronicity*
 - Data are often reported for different years or time-series data is unavailable
 - E.g. Census
 - Rol every 5 years: 1996, 2002, 2006, 2011
 - NI every 10 years: 1991, 2001, 2011



Present difficulties in providing evidence base

- 7) *Data continuity*. The areas into which data are collected, or the units being used, are periodically altered making comparison between areas difficult.
- 8) *Data clarity/metadata*. In some cases it is not clear how statistical material had been derived, this particularly the case if data were calculated using a formula.
- 9) *Context*. In some cases data differ because different policies operate across the different jurisdictions. For example, disposal income varies as a function of the tax regime not simply the level of earnings.



Solutions to these problems

- INSPIRE
- Mosiac
 - Geohub
 - Spatial Indicators - Moland (Monitoring Land Cover/Use Dynamics)
- North-West Data Capture Project
- Mapping Interreg
- Cross-Border Regional Research Observatory (RRO)



Mapping Interreg

- Track the location of projects funded by cross border programmes
- Interactive maps that form an interface to BorderIreland database



<http://www.borderireland.info/>



Layers

Pick a layer

This is the menu from which the user can select the various layers to be loaded onto the map, based on queries to the database.

Layers are then loaded up on this interactive map.



Layers

Organisations by County Locations

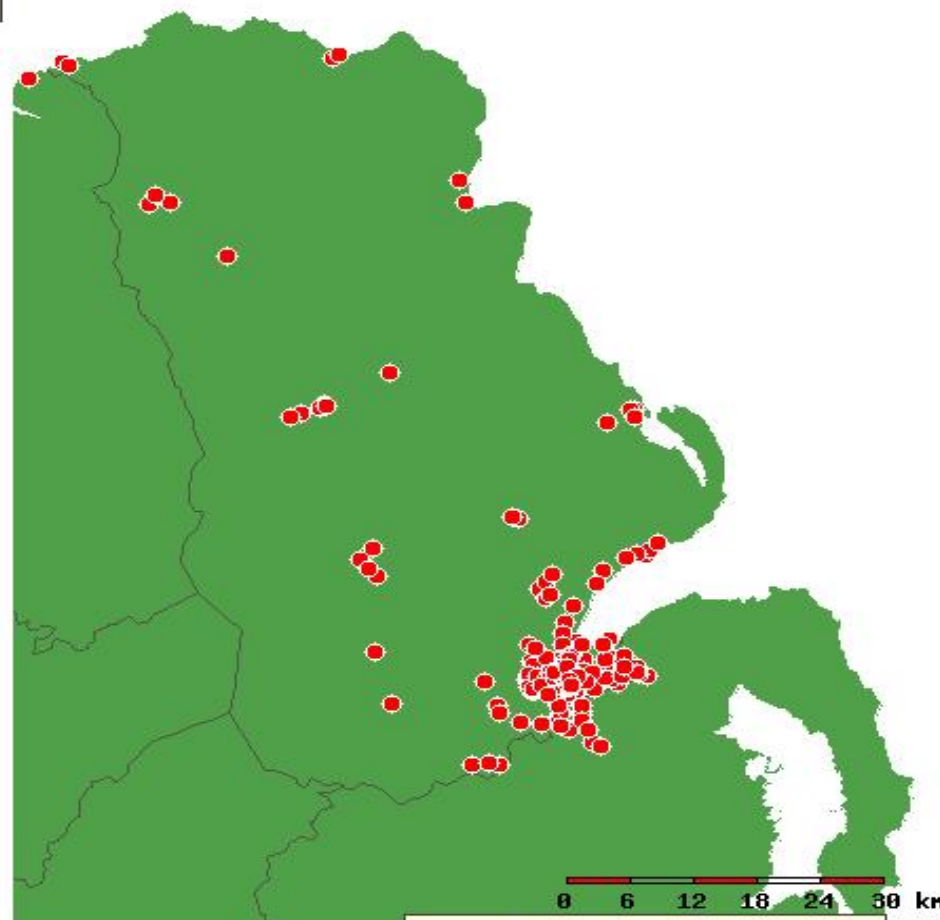
Counties

- Antrim
- Armagh
- Tyrone
- Down
- Derry
- Fermanagh
- Carlow

Multiple Buildings are located near the point you clicked!

- 1: [Presbyterian Church Community Outreach](#)
- 2: [Fred C Robinson Limited](#)
- 3: [Ballyclare/Mayfair Partnership](#)

When a point is clicked on this table is presented to the user. If an exact location was found it contains a single entry. Multiple entries occur when buildings are close together. Zooming in to higher levels can increase the chance of a single match.



The map displaying data for the current layer.

Cross-Border RRO

Cross Border Regional Research Observatory

- sharing information and intelligence across the Border Region

RRO Home

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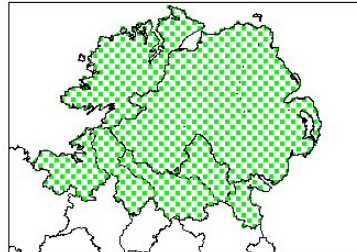
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environmental issues.

The intended audience of this website are planners, researchers and policy makers from the Cross Border Region of Ireland and the island of Ireland as a whole. The site is divided into a number of sections each containing different types of information assets about the region.

On this site you can:

- search for useful websites relating to community, socio-economic and environmental development
- register your own company/department as a useful link in regional development and co-operation
- download and read various reports relevant to the development of the region
- browse the Spatial Data Inventory
- find information and statistics about the region, north and south of the Border
- access the priority regional and All-Island indicators
- find out the latest research news relating to the region
- use the mapping module



This website provides access to information and intelligence for the Cross Border Region in Ireland. The Cross Border region consists of all of Northern Ireland and the 6 Border Counties in the Republic of Ireland.

The primary function of the RRO is to provide access to reports and information sources about the development of the region in relation to community, socio-economic, infrastructural and

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Portals

- Directory & Publications
- Spatial data inventory

Regional Research Observatory
- sharing information and intelligence across the Border

Publications, Documents and Strategies

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Cross Border Groups, Organisations and Authorities

North South Ministerial Council Publications

- NSMC Annual Report 2002 (PDF Format - 639KB)
- NSMC Annual Report 2003 (PDF document - 1720KB)
- NSMC Annual Report 2004 (PDF document - 1229KB)
- NSMC Annual Report 2005 (PDF document - 2462KB)
- NSMC Annual Report 2006 (PDF document - 3942KB)
- NSMC Annual Report 2007 (PDF document - 3446KB)

Demographics

Republic of Ireland

- Central Statistics Office - Population Projections
 - Regional Population Projections 2002 - 2021
 - Central Statistics Office - 2006 Census of Population
 - Population Report
 - Population Report
 - Physical Demographic Results
 - Volume 1 - Population Classified by Area
 - Volume 2 - Age and Marital Status
 - Volume 3 - Household Composition and Family Units
 - Physical Socio Economic Results
 - Volume 4 - Household Composition, Migration, Ethnics and Nationalities
 - Volume 5 - Physical Economic Status and Industries
 - Volume 6 - Occupations
 - Volume 7 - Education and Qualifications
 - Volume 8 - Irish Traveller Community
 - Home to Work, School and College
 - Volume 10 - Disability and Care
 - Volume 11 - Irish Language
 - Volume 12 - Religion
 - Volume 13 - Housing

Northern Ireland

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Directory Database - Details

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Government and Cross Border Groups/Organisations/Authorities

Organization: North South Ministerial Council

Region: All Ireland

Address: North/South Ministerial Council

JOHN SEANLATH

39 Abbey Street
Arimagh

BT41 7BB

Website: www.northsouthministerialcouncil.org

Email:

Telephone: (028648) 3751 8368

back to search list

Organization: Department of Foreign Affairs

Region: Rep of Ireland

Address: Department of Foreign Affairs
80 St. Stephens Green
Dublin 2
.....

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Directory

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This Directory is a repository of contact information for organisations, authorities and bodies that provide useful information and services concerning the overall development of the Region.

Contact details are available for both Northern Ireland and the Republic of Ireland.

To date we have concentrated on 12 main themes. Please click on the links below for further information:

- Government and Cross Border Groups/Organisations/Authorities
- Agriculture, Environment and Natural Resources
- Health
- Community and Social
- Demographics and Population
- Business and Industry
- Economics and Finance
- Enterprise, Trade and Investment, Technology and Innovation
- Employment, Education and Learning
- Transportation
- Arts, Culture, Leisure and Sports
- Regional Development

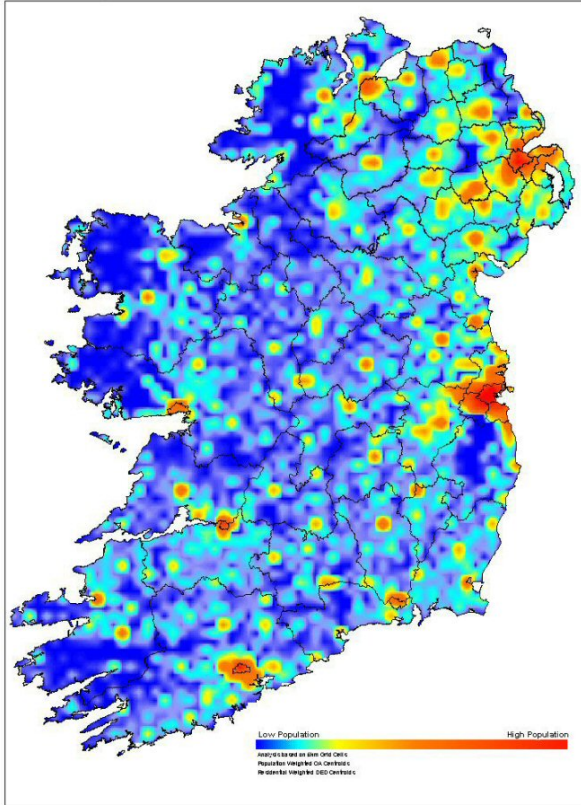
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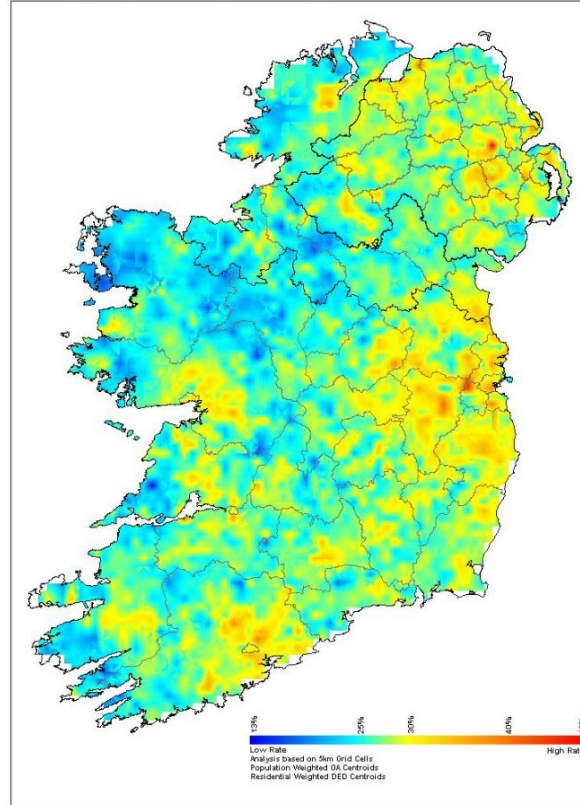


RRO - Priority Indicators

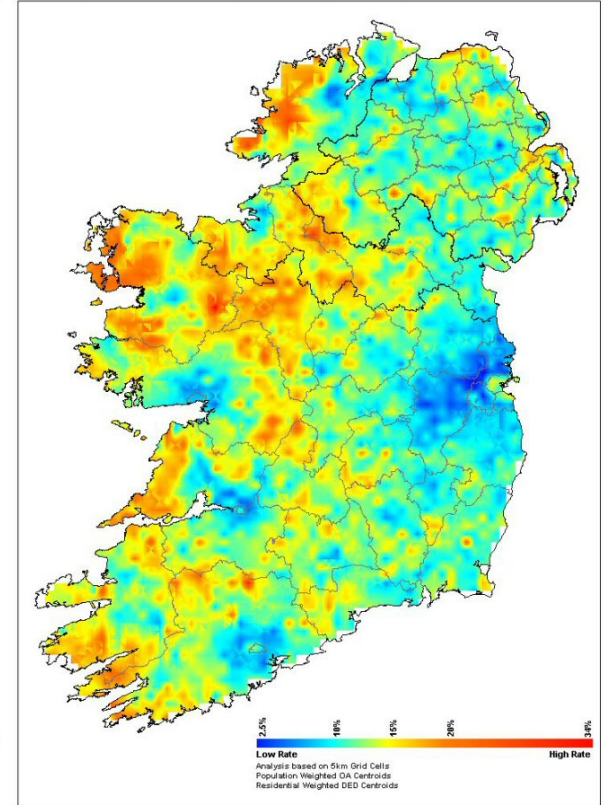
All Ireland Population Distribution - 2001/02



Percentage Proportion of Population : Age Band 25 - 44

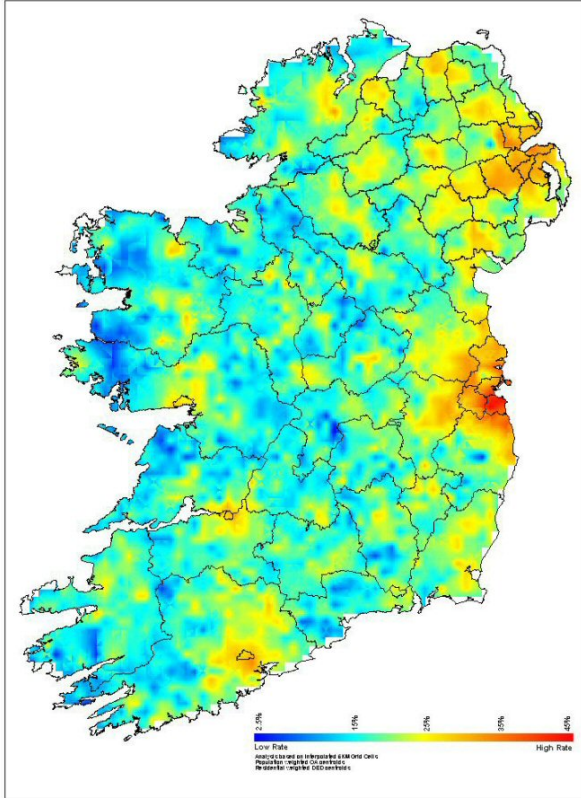


Percentage Proportion of Population : Age Band 65 plus

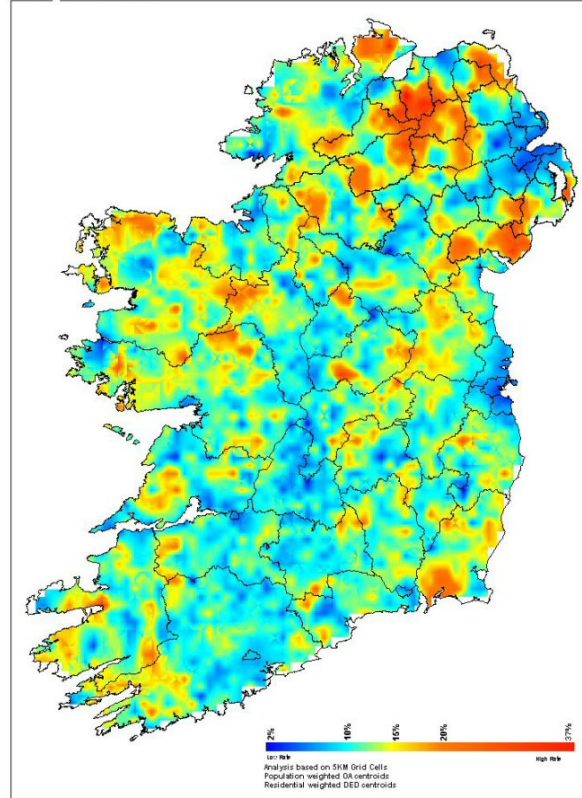


RRO - Priority Indicators

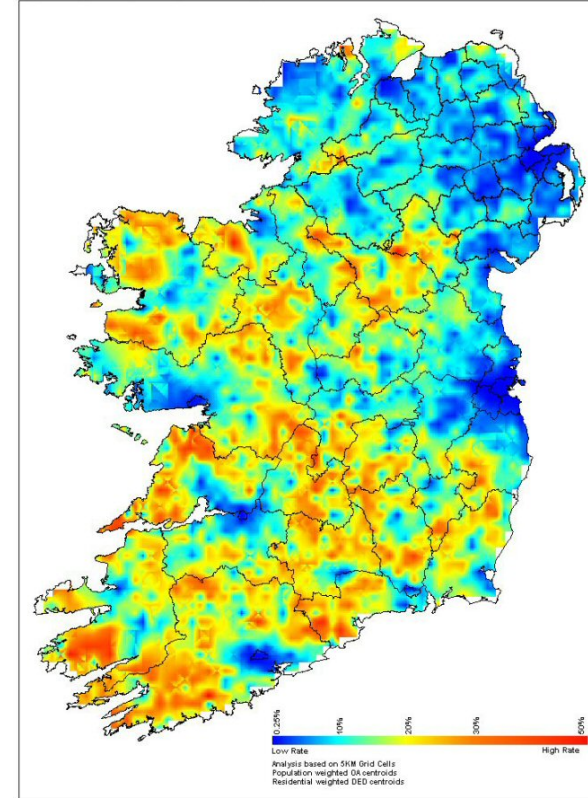
Percentage Proportion distribution of the population whose Industry of Employment is :
Commerce



Percentage Proportion distribution of the population whose Industry of Employment is :
Building and Construction

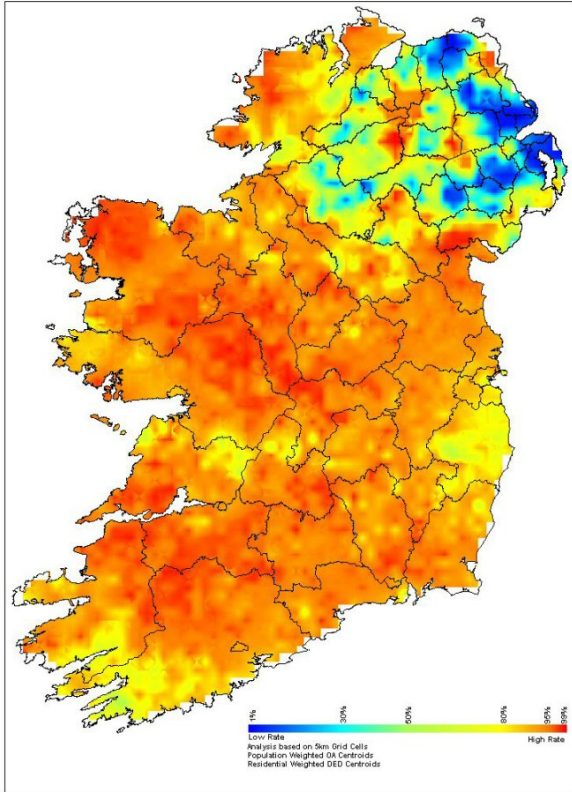


Percentage Proportion distribution of the population whose Industry of Employment is :
Agriculture, Hunting, Fishing and Forestry

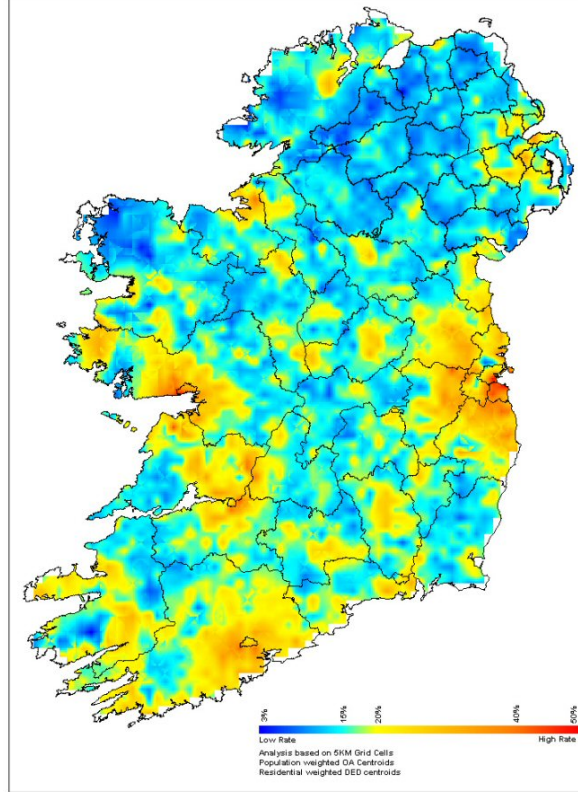


RRO - Priority Indicators

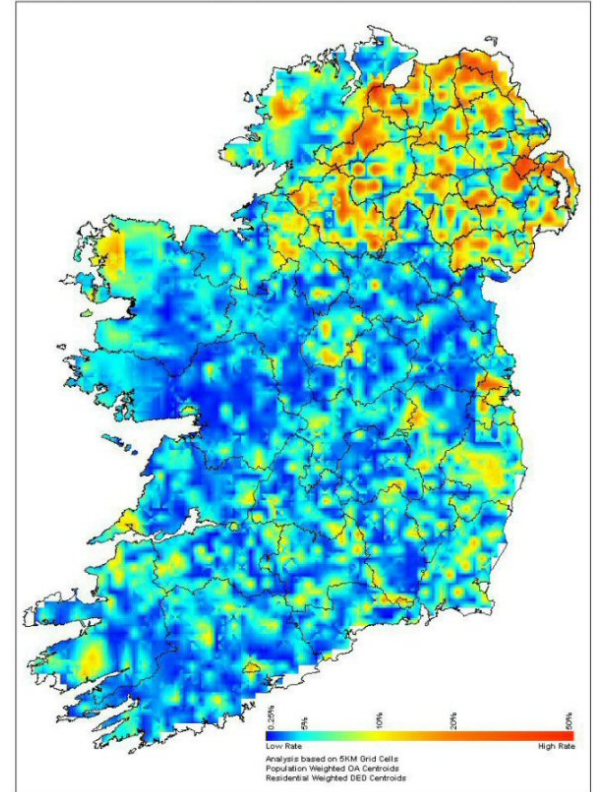
Population distribution of those classed as Catholic on an All Ireland Basis



Percentage Proportion distribution of the population (15+16-74) with Third Level Qualifications



Percentage Proportion distribution of Rented from LG/NIE etc Households in Ireland



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Population - Figures >> Total Population

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

Click to select a new indicator

DED or Ward Name	Data
Abbey	2,922
Abbey Park	2,599
Academy	2,079
Achonry East	483
Achonry West	625
Aclare	309
Aghabog	303
Aghacashel	74
Aghagallon	3,806
Aghalateeve(027)/Aghavog	134
Aghanagh	249
Aghanlish	132
Aghanloo	3,260
Aghavas	284
Agivey	2,092
Ahoghill	3,523
Aldergrove	5,234
Altmore	2,111
Altnagelvin	4,477
Altnapaste	369
Andersonstown	5,764
Anketell Grove	954
Annaduff	164

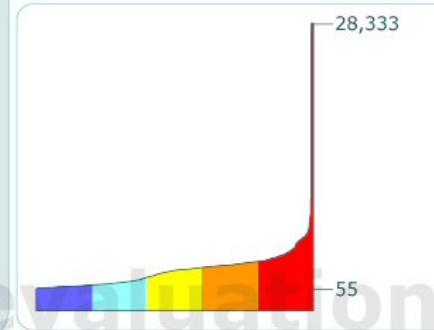
Palette Legend

Wards_DED_simplify1.MIF
Quantile Legend Type

- 55 - 420.5
- 420.51 - 1,230
- 1,230.01 - 2,289
- 2,289.01 - 2,928.5
- 2,928.51 - 28,333

Counties_Districts.MIF

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Download Data

Help

Report



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Industry of Employment >> % Building and Construction

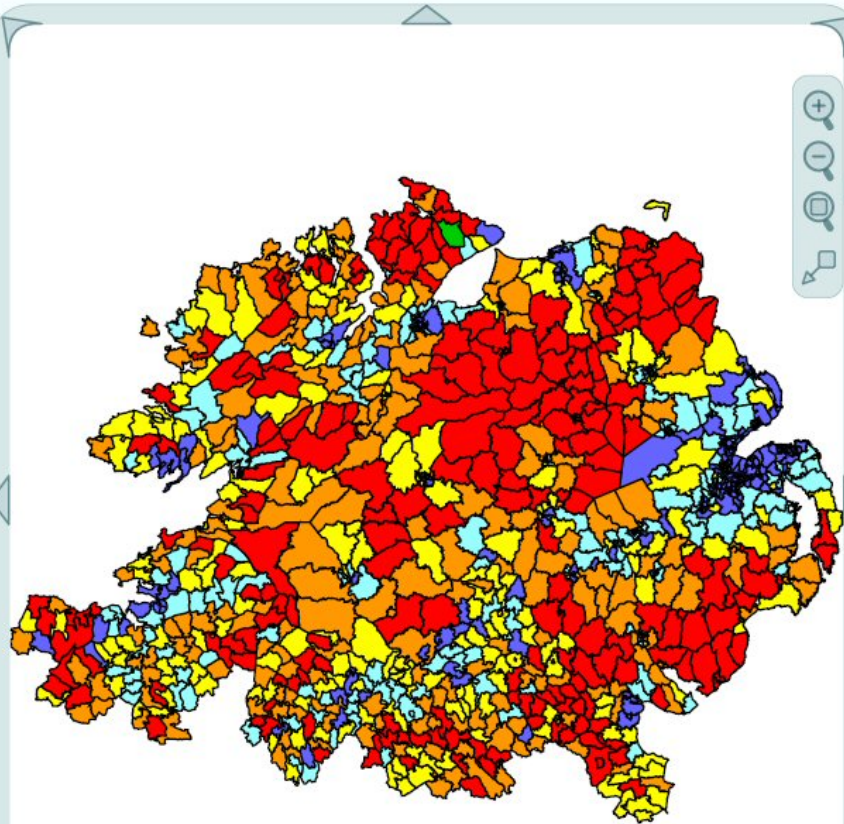
Data

Filter

Notes

Reset

Click to select Gleneely



DED or Ward Name	Data
Gleneely	32.47
Feeny	29.4
Upper Glenshane	28.89
Armoyn	28.49
Three Trees	28.43
Benbrack	25.81
Lisnacree	25.74
Ballyhoe and Corkey	25.25
Glenleheen	25
Straid	24.56
Portaferry	24.18
Dungiven	24.11
Munakill	24.05
Owenkillew	24
Dromore	23.86
Lower Glenshane	23.76
Mintiaghs	23.71
Spelga	23.62
Ballyward	23.58
Binnian	23.47
Silver Bridge	23.41
Aghacashel	23.08
Dunnamore	23.05

Palette Legend

Wards_DED_simplify1.MIF
Quantile Legend Type

- 0 - 6.42
- 6.43 - 8.72
- 8.73 - 11.31
- 11.32 - 15.15
- 15.16 - 32.47

Counties_Districts.MIF

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Industry of Employment >> % Building and Construction

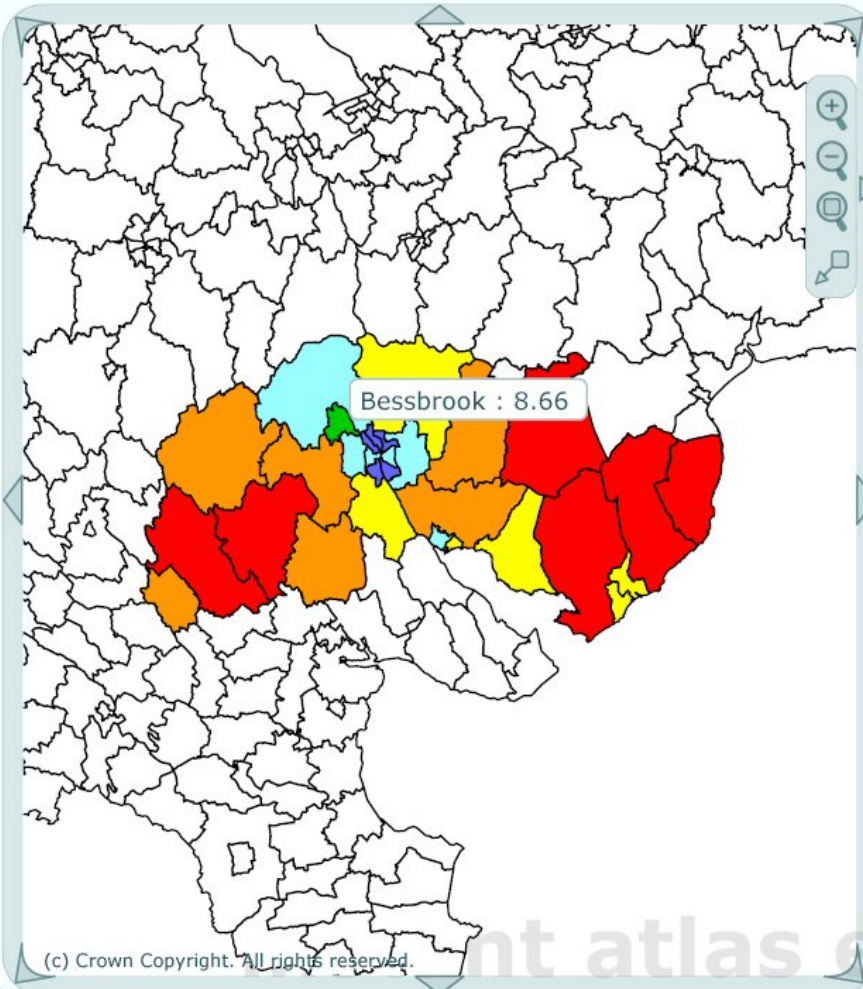
Bessbrook : 8.66

Data

Filter

Notes

Reset



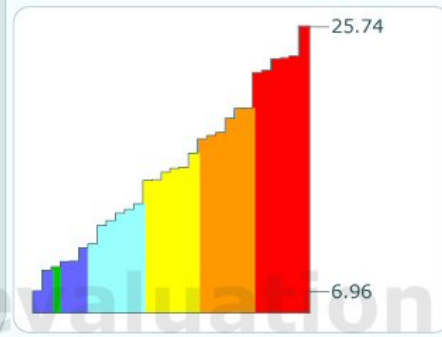
DED or Ward Name	Data
Windsor Hill	6.96
Drumalane	8.43
Bessbrook	8.66
Drumgullion	9.04
St Mary's	9.07
Ballybot	10.02
Daisy hill	10.3
St Patrick's	11.6
Clonallan	11.95
Derrymore	12.46
Derryleckagh	12.75
Tullyhappy	13.15
Seaview	14.8
Fathom	14.84
Kilkeel Central	15.38
Donaghmore	15.65
Rostrevor	15.73
Kilkeel South	16.73
Forkhill	17.74
Mayobridge	17.97
Camlough	18.19
Newtownhamilton	19.2
Burren and Kilbroney	19.9

Palette Legend

Wards_DED_simplify1.MIF
Quantile Legend Type

- 6.96 - 10.16
- 10.17 - 13.98
- 13.99 - 16.73
- 16.74 - 21.18
- 21.19 - 25.74

Counties_Districts.MIF



Geo-Profiling tool

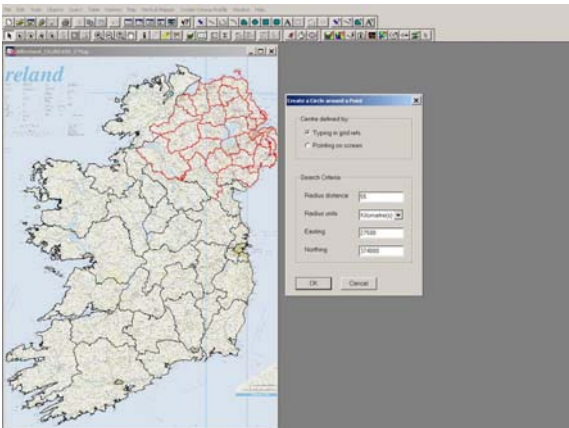
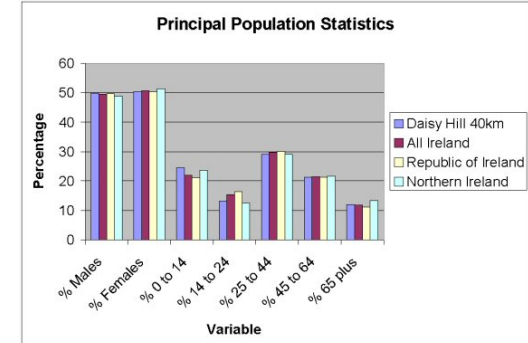


Socio-economic data for the following study area has been derived from information available through the Central Statistics Office in the Republic of Ireland and the Northern Ireland Statistics and Research Agency. The following data has been aggregated using a population/residential weighted proportioning 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: 408980. of this figure 49.73% and 50.27% 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 24.47%, the 15 to 25 year old age band represents 13.07% of the population, the 25 to 44 age band represents 29.13 % and the 45 to 64 year age band represents 21.25%. The old age grouping of 65 years plus represents 12.08%. 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 0.58%



Geography	Total Population	% Males	% Females	% 0 to 14	% 14 to 24	% 25 to 44	% 45 to 64	% 65 plus	Dependency Ratio
Daisy Hill 40km	408980	49.73	50.27	24.47	13.07	29.13	21.26	12.08	0.58
All Ireland	9622470	49.4	50.6	21.87	15.23	29.9	21.33	11.77	0.51
Republic of Ireland	3917203	49.68	50.32	21.12	16.39	30.13	21.24	11.13	0.48
Northern Ireland	1685267	48.74	51.26	23.62	12.65	29.03	21.65	13.26	0.58
Counties in Rep of Ireland									
Cavan	58546	51.31	48.69	22.8	14.8	27.04	21.54	13.82	0.58
Leath	101821	49.59	50.41	22.68	16.12	30.34	20.54	10.34	0.49
Meath	134005	50.55	49.45	23.63	15.42	31.72	20.54	8.7	0.48
Monaghan	52593	50.37	49.63	22.39	16.22	27.71	21.38	12.31	0.53
Districts in Northern Ireland									
Armagh	54353	49.62	50.38	25.07	12.7	28.62	21.46	12.26	0.6
Banbridge	41392	50.02	49.98	23.63	11.47	30.83	21.52	12.55	0.57
Craigavon	80671	49.28	50.72	24.7	11.57	29.58	21.52	12.63	0.6
Down	138238	49.64	50.36	24.86	12.45	28.22	21.6	12.67	0.6
Dungannon	47726	49.43	50.57	26.3	12.85	28.37	20.69	12.49	0.62
Lisburn	108894	48.74	51.26	24.52	11.89	30.08	21.62	11.88	0.57
Newry and Mourne	87058	49.5	50.5	26.57	12.96	28.5	20.27	11.7	0.62



Conclusions

- Collaborative, evidence-based planning requires sound evidence
- There are (pilot) initiatives underway to address fundamental data issues
- There is much more that needs to be done
- Should be a key strategic area of investment



Thank You

Prof. Rob Kitchin
NIRSA & ICLRD
NUI Maynooth

Email: rob.kitchin@nuim.ie



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