Northern Ireland Multiple Deprivation Measure 2004: Consultation

DEPRIVATION GEOGRAPHY

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Outline:

- 1. Current Deprivation Measures Geography
- 2. Geography developments
- 3. 2001 Census Output Areas (OAs)
- 4. 2004 Deprivation Measures Geography options
- 5. Consultation







1. Current Deprivation Measures Geography:

 Based on electoral wards (1984 boundary commission) & 1991 Census EDs

Issues:

- 1992 Boundary Commission review ('new' wards)
- 1991 Census EDs designed for Census Enumeration
- This geography not suitable for this review
 - out of date







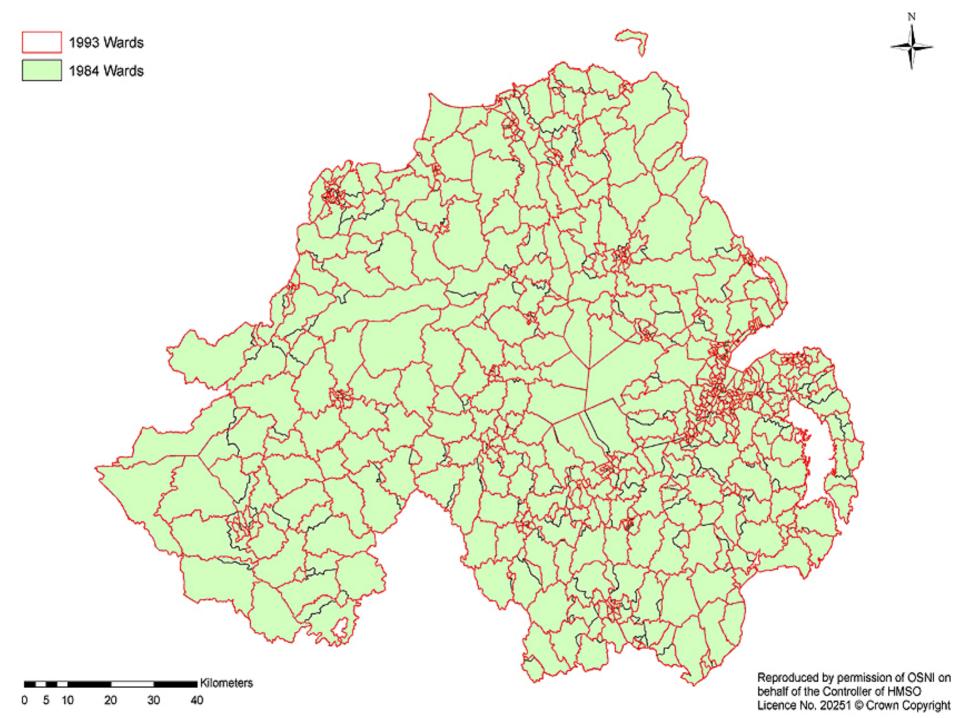
2. Geography Developments:

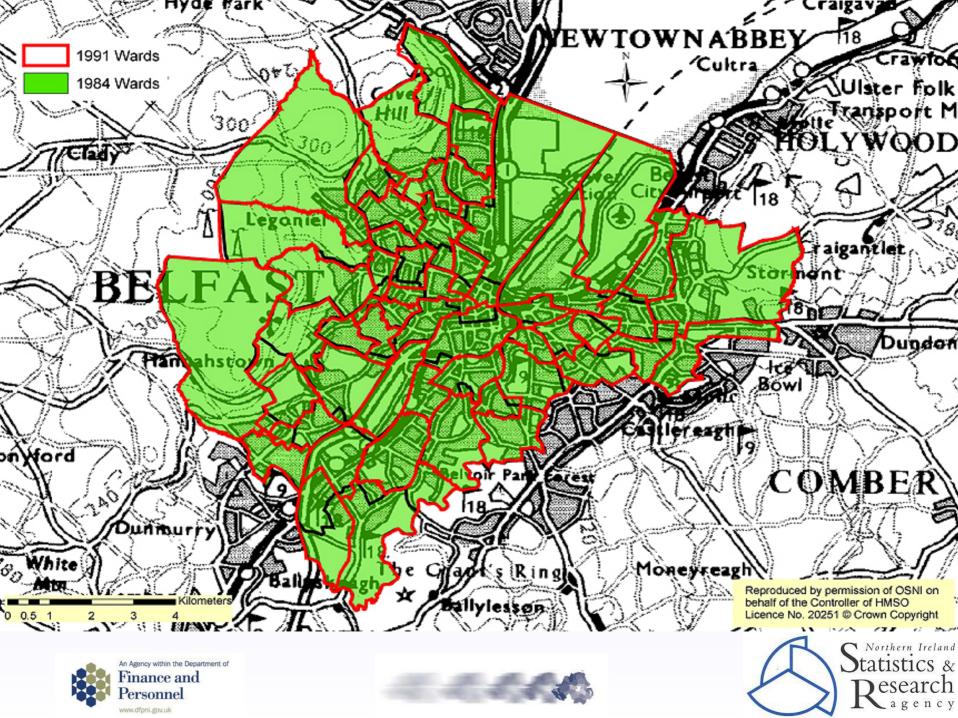
- 1992 Ward Boundary Comm. review
 - Significant boundary change in some areas
- 2001 Census output based on the 1992 Wards
 - Administrative data referenced to these wards
- 2001 Census new geography Output Areas (OAs)

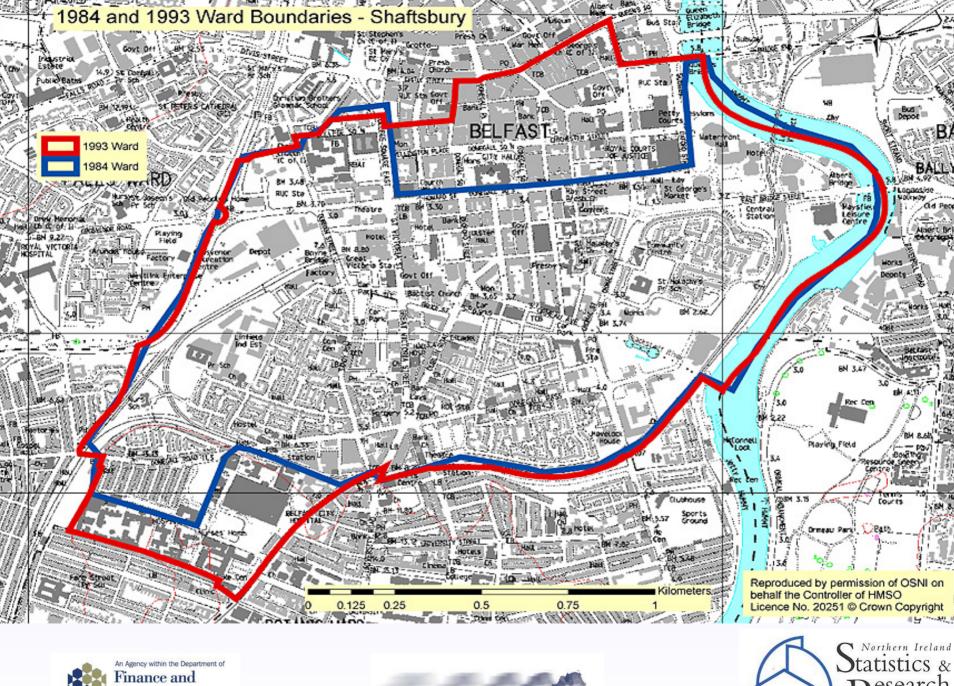
















2. Geography Developments:

 2001 Census – new geography Output Areas (OAs)







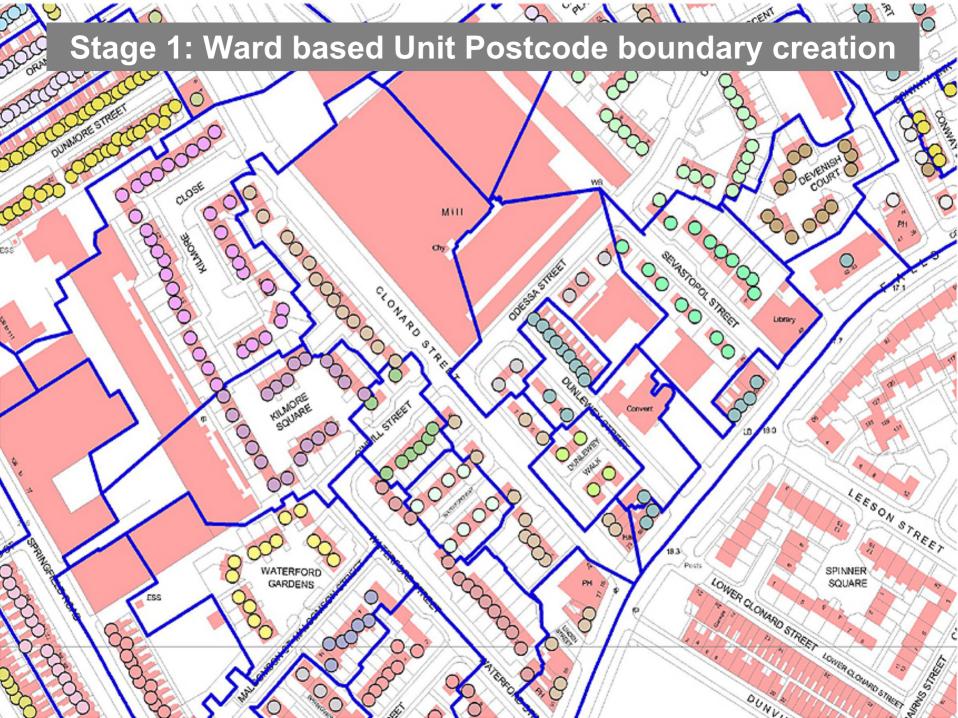
3. 2001 Census - Output Areas (OAs)

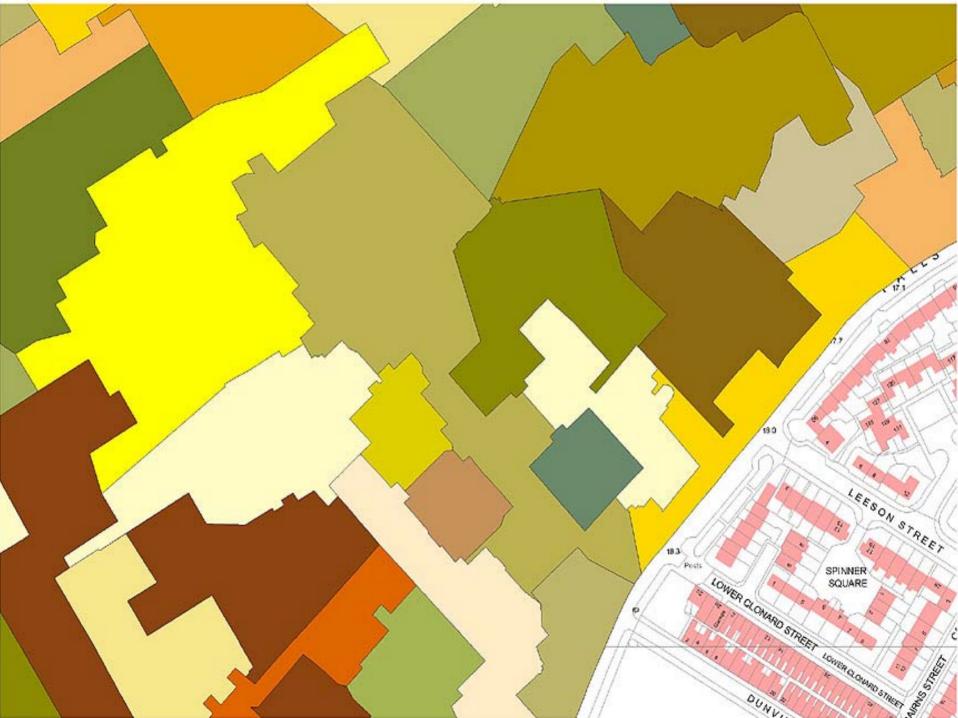
- User demand for "better" output geography
- Geography designed for statistical output
- Smaller homogeneous areas
- Population thresholds
- Flexible areas can be aggregated to user's individual requirements











Stage 2: Output Area Design

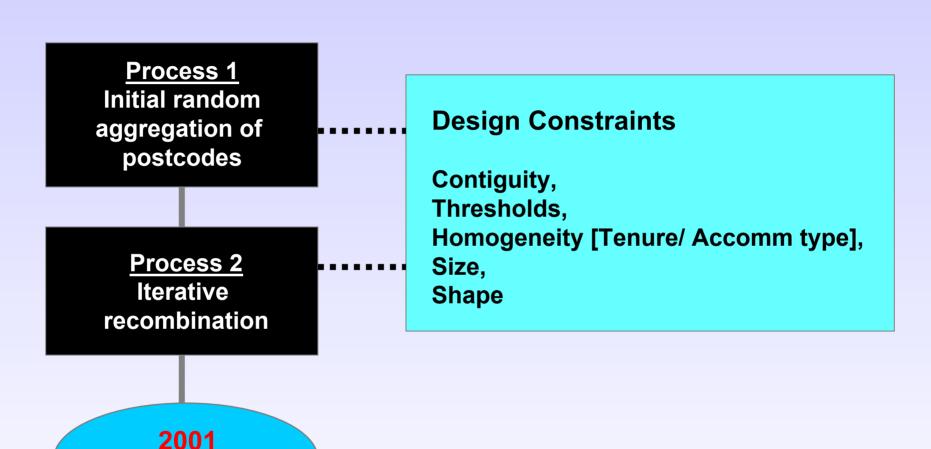
- Output Area Planning System developed within Office for National Statistics
- Basic concept for each ward, the system, using data from the 2001 Census aggregates individual postcodes into groups then adjusts until an optimum set of groups is obtained
- Optimum group Output Areas







Stage 2: Output Area Design

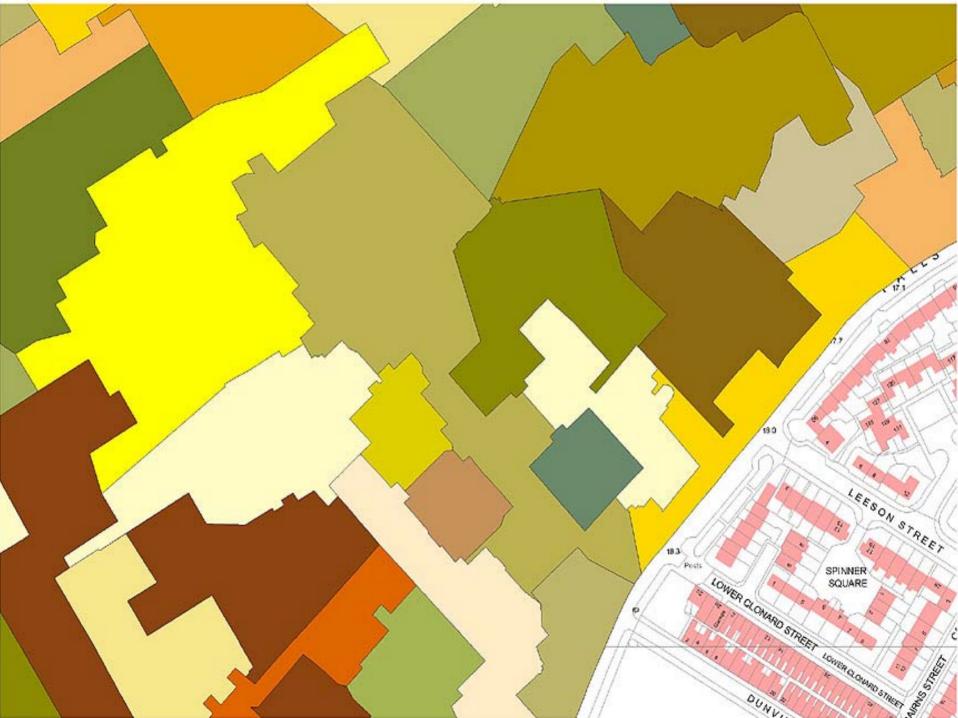


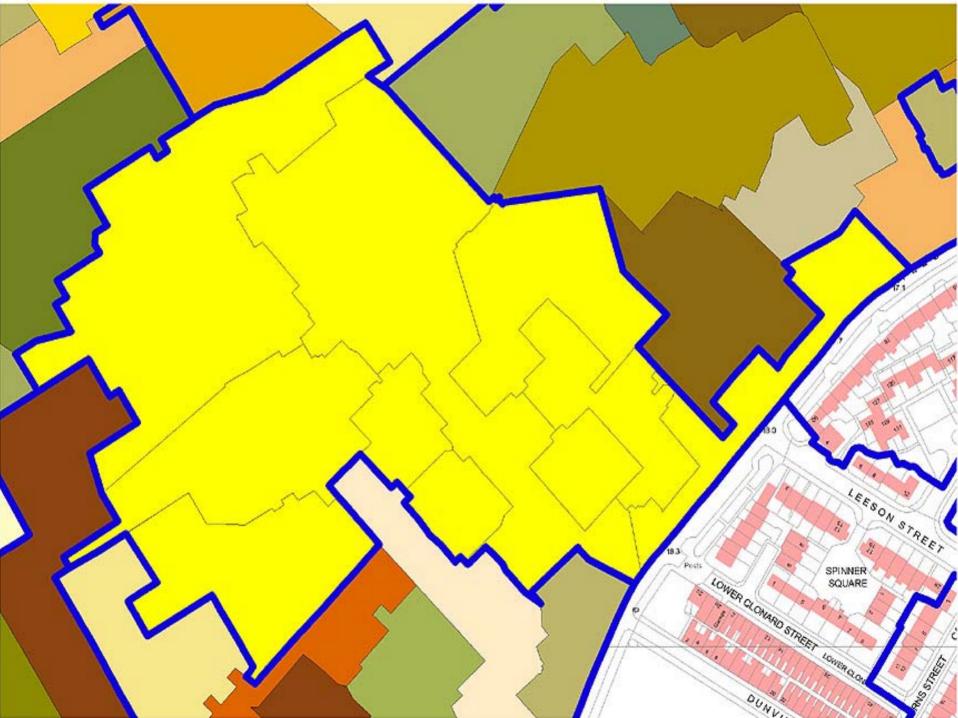


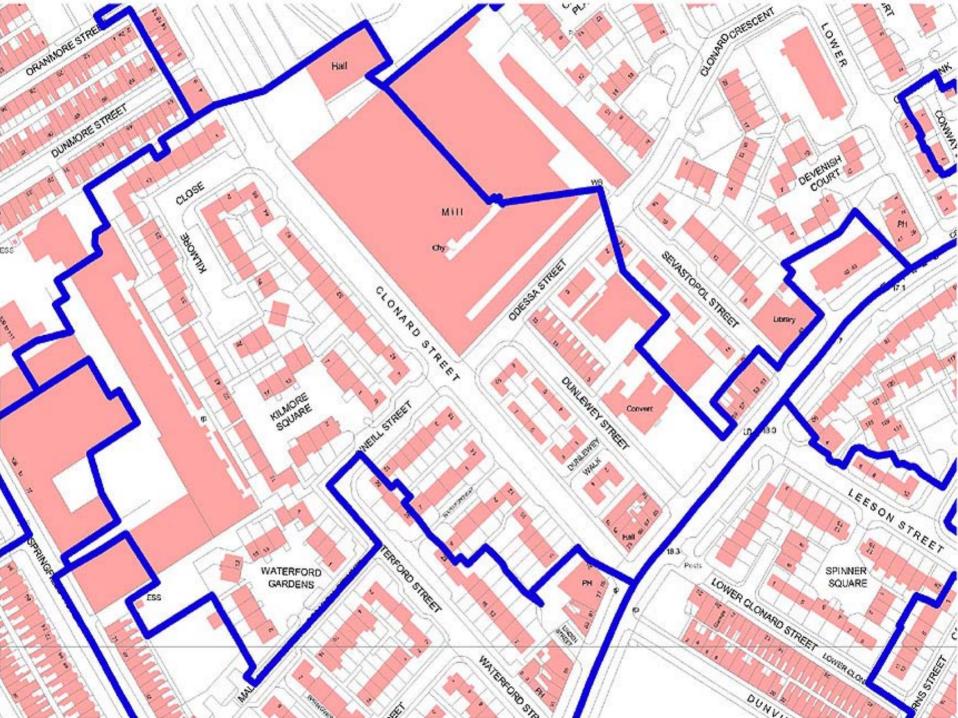
Output Areas











3. 2001 Census - Output Areas (facts)

- New for 2001 Census, a statistical geography specifically for low-level census outputs
- Aligned to 1992 Bound. Comm. wards
- Small size c125 households/ c340 people
- 5022 OAs in Northern Ireland





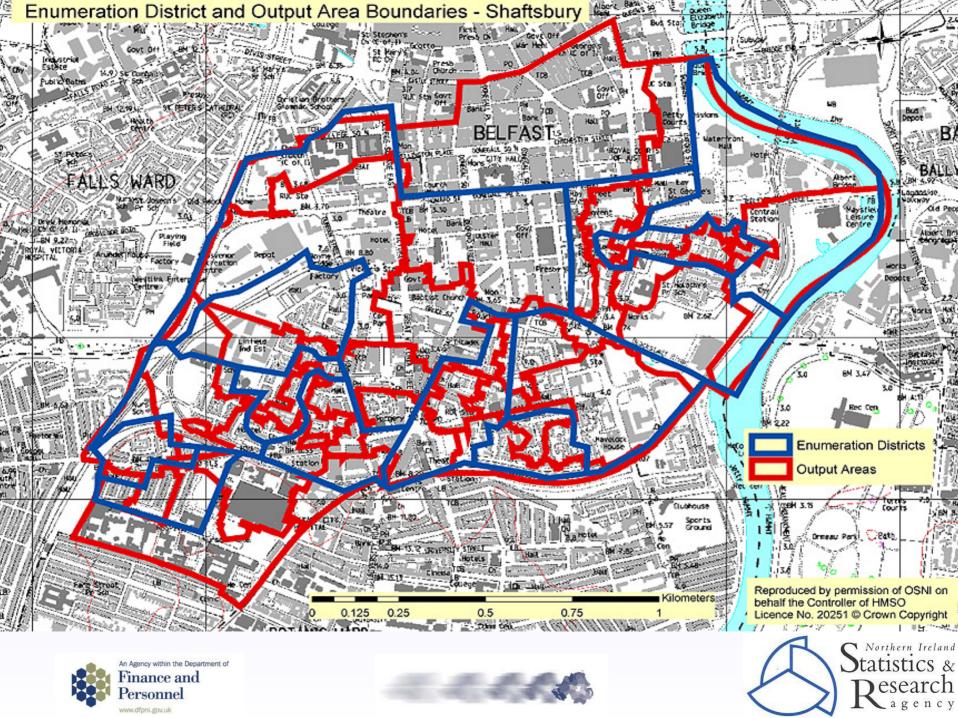


HSSBs / ELBs NUTS Areas Local Government Parliamentary Constituencies/ **Districts Assembly Areas** 26 18 **Electoral Wards** 582 **Census Output Areas** 5022 **Unit & part postcodes** ~40,000









Comparison of Geographies

Population

Geography	Small	Median	Large	Areas
[1991 Census]				
Ward (1984)	775	2444	9753	566
ED (1991)	71	426	900+	3729
[2001 Census]				
Ward (1992)	761	2544	9572	582
Output Areas	109	333	600+	5022







4. 2004 Deprivation Measures Geography options

- Move to 1992 BC review ward based geography
- Use of 2001 OAs a better geography
- However wards are not similar in terms of population size (<800 - >9,000)
- Need a 'new' Geography at this level?







4. New Geography – Super Output Areas

- Built from OAs
- Build on availability of data (2001 Census)
- No disclosure risk (built from OAs)
- Electoral Ward based (1992)
- Geography with more uniform population sizes
- Populations large enough to provide robust statistics
- Similar areas in GB (SOAs / Datazones)







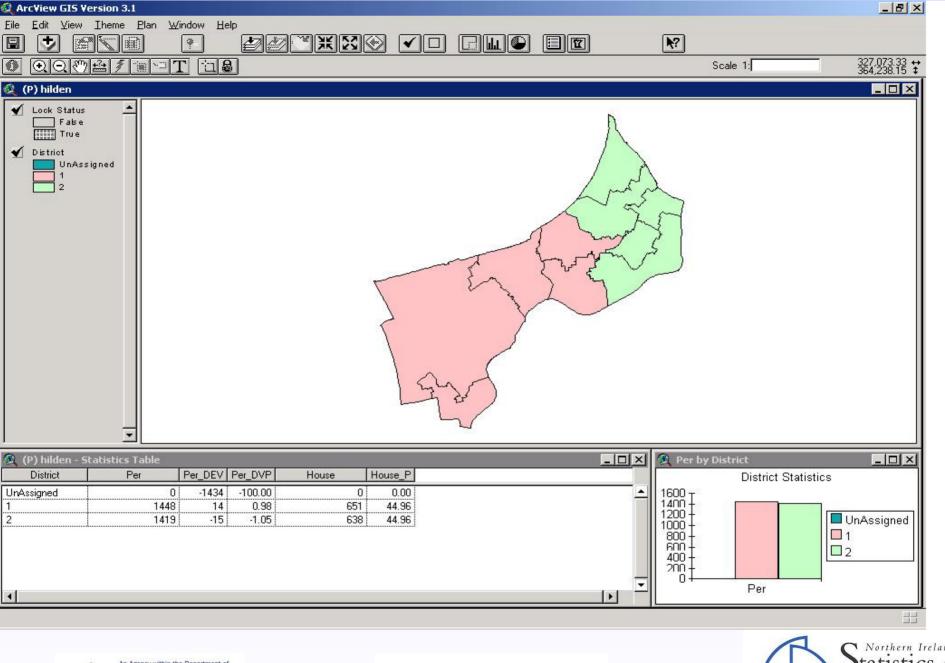
SOAs: Suggested parameters

- i. Contiguous areas
- ii. Aggregate OAs
- iii. Maintain electoral ward link
- iv. Target Size 2000 people (Min 1300 / Max 3000)
- v. Consider each ward individually
 - Can it be a SOA in its own right (Pop size? Y /N)
- vi. Split some wards and merge others
 - Seek uniformity of Pop size
- vii. Use population threshold and OA creation methods







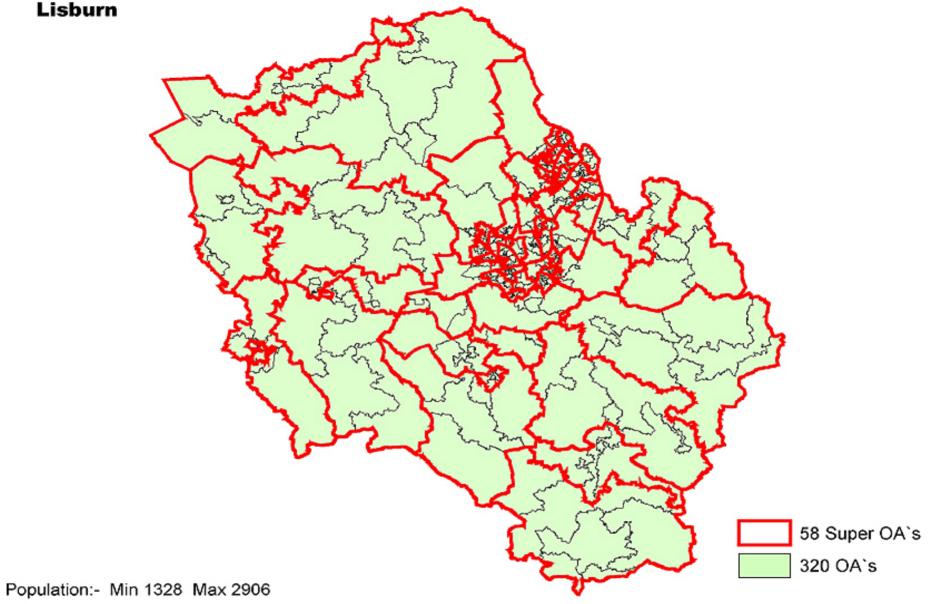








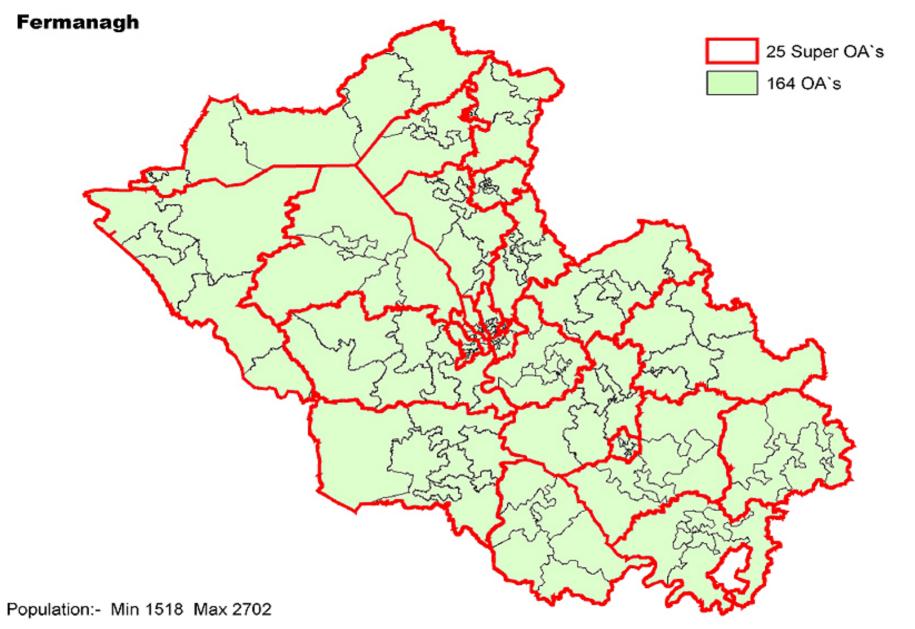
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SOAs: Initial results

From 582 Wards - Created 895 SOAs

- 323 Wards unaltered → 323 SOAs
- 185 Wards (2 SOAs)
 → 370 SOAs
- 54 Wards (3 SOAs)
 → 162 SOAs
- − 6 Wards (4 SOAs)→ 24 SOAs
- 2 Wards (5 SOAs)
 → 10 SOAs
- *12 Wards combined → 6 SOAs

SOAs population sizes range from:

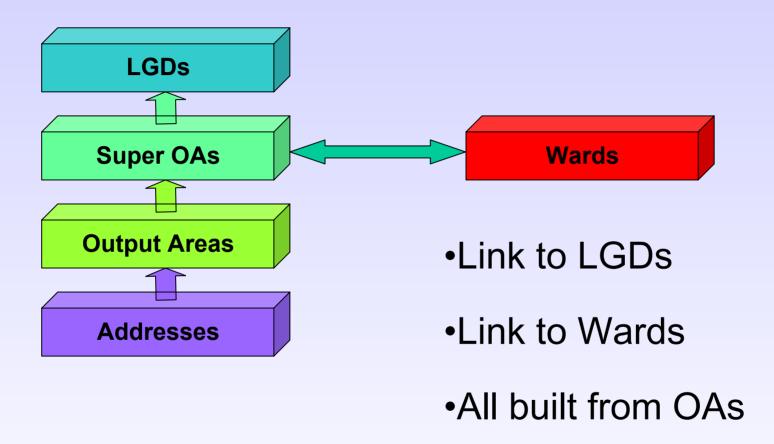
- Smallest 1300 Largest 2965
- Average size = 1892







Hierarchy:









Options for deprivation measures

- 1. Use '1992' Wards and OAs
 - ✓ Wards well known by users
 - ✓ OAs beginning to be understood
 - x Wards variation in size (<800 >9,000)

2. Use SOAs and Output Areas

- More uniform in terms of population size
- ✓ Better a statistical geography
- ✓ Recommended by Steering Group
- x SOAs a new geography







5. Consultation

- Should SOAs be used to report Deprivation Measures?
- If so, have you any views of the parameters we have used?
- Further details consultation document Annex A
- Demonstration on stand at side of hall





