

2001 Census

Output Geography

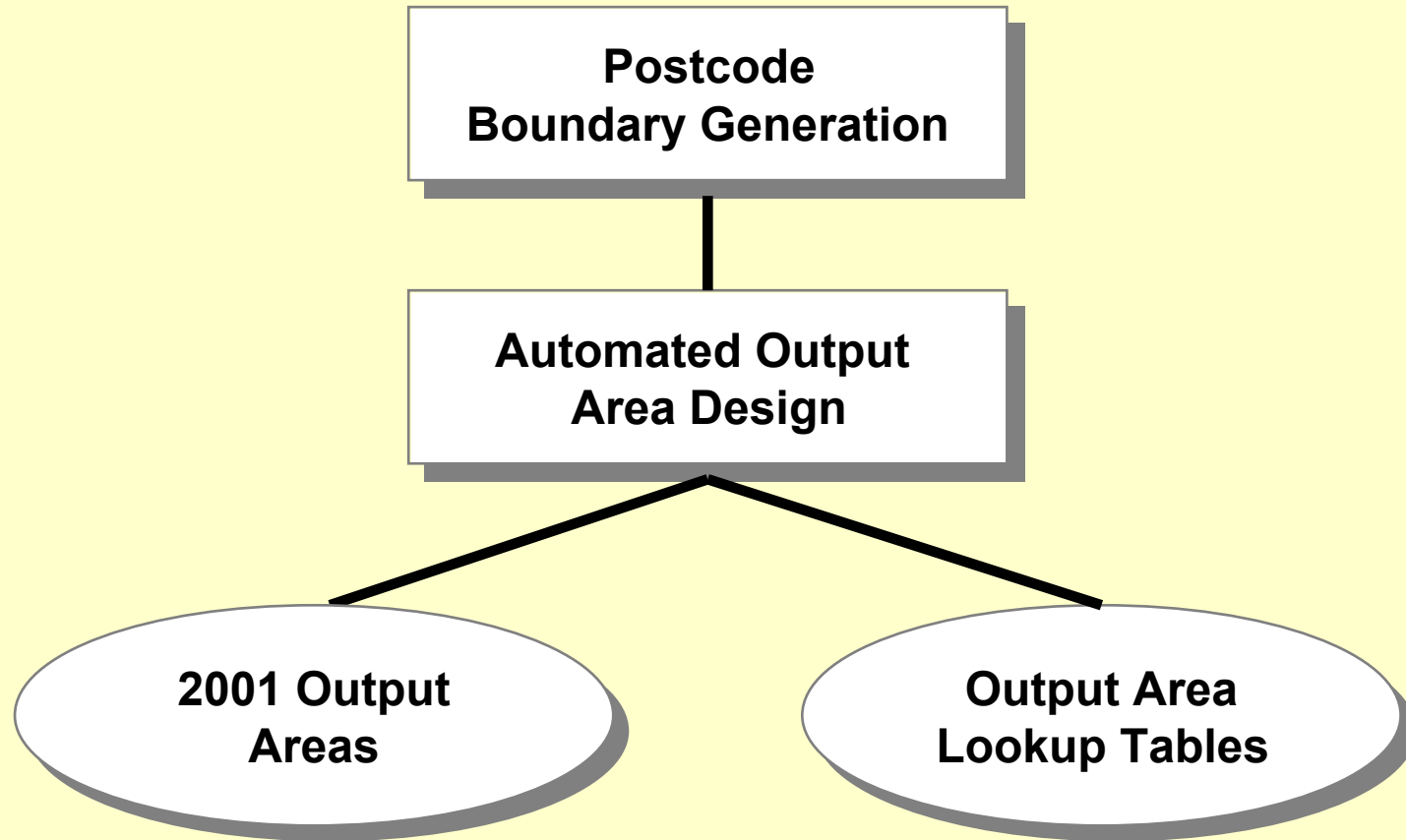
2001 Census Output Geography

- Output Areas - A Recap
- Development Update
- Products and Services

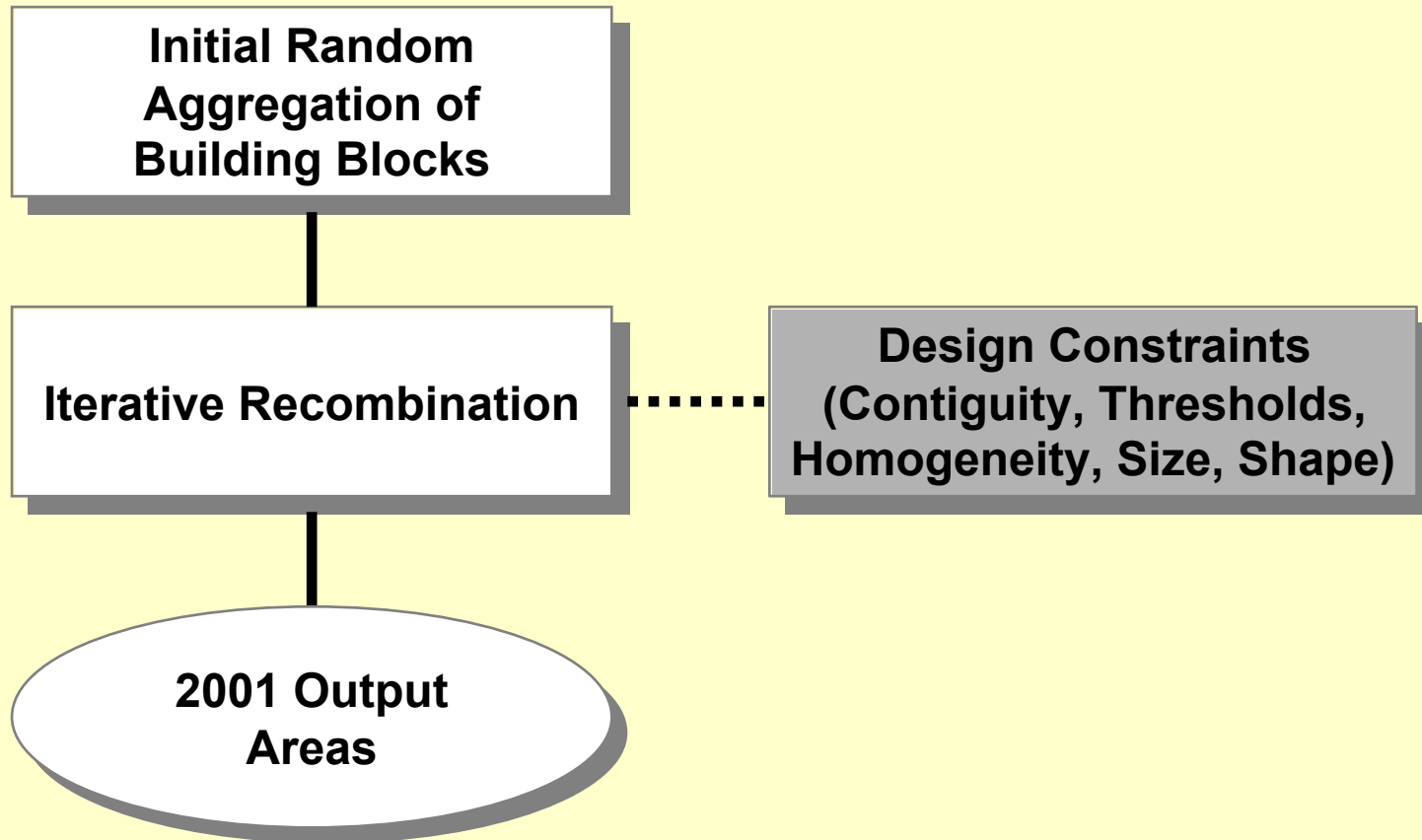
2001 Census: A New Output Geography

- Meeting the Requirement to provide a specific geography for statistical purposes
- Separating collection from output geography
- Postcode-based - Enabled by ADDRESSPOINT^(TM)
- To be used for Neighbourhood Statistics output

Output Area Production System

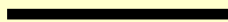


Output Area Design

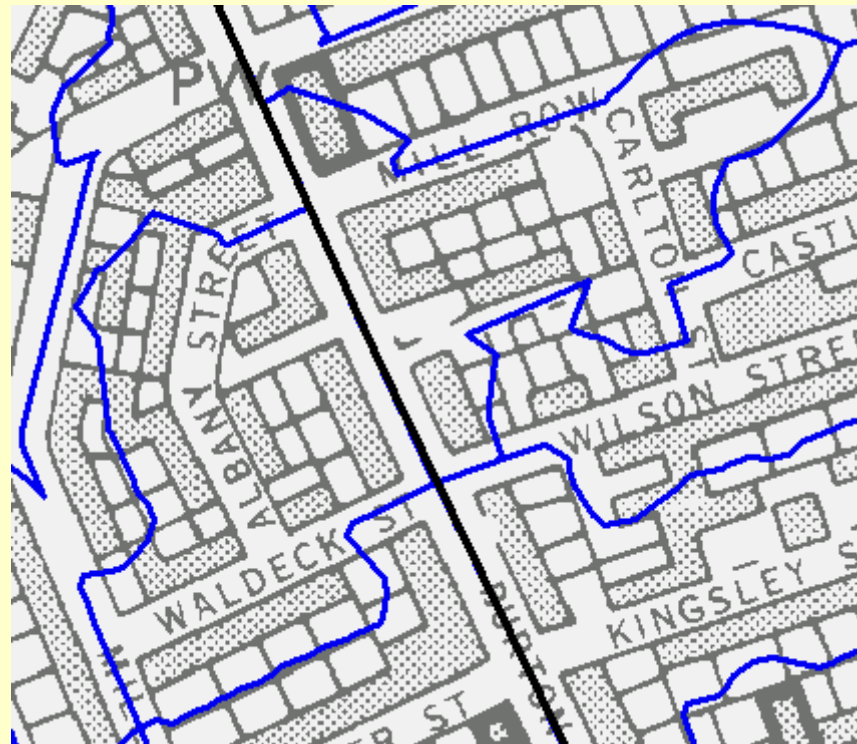


Output Areas - Lincoln

Ward



Output Areas



OA CODE

- County (2 numeric)
- District/UA (2 alpha)
- Ward (2 alpha (numeric in N.I.))*
- OA (4 numeric)**

Example: 24 UE FE 0034

*Amended in response to feedback from 2000 CAS
Discussion Paper

** Amended to ensure UK consistency

Development Update

- Improved Homogeneity Algorithm
- Researching Settlement Recognition
- Identification of Sub Threshold Areas

Homogeneity Algorithm

- Developed by David Martin, Mark Tranmer and Abigail Nolan (Funded by ESRC).
- Larger OAs tend to be less homogeneous.
- Increase the degree of homogeneity by introducing a measure (*a specific statistical objective*) into the OA creation process.

Homogeneity Algorithm

- OAPS Prototype
 - Tenure-based measure
 - A ‘first cut’ attempt at homogeneity measurement, pending further work
 - Tenure variable is “crude” - has limited categories
 - First Past the Post - Dominance will not produce very satisfactory results when there is a strong intermixing of categories.

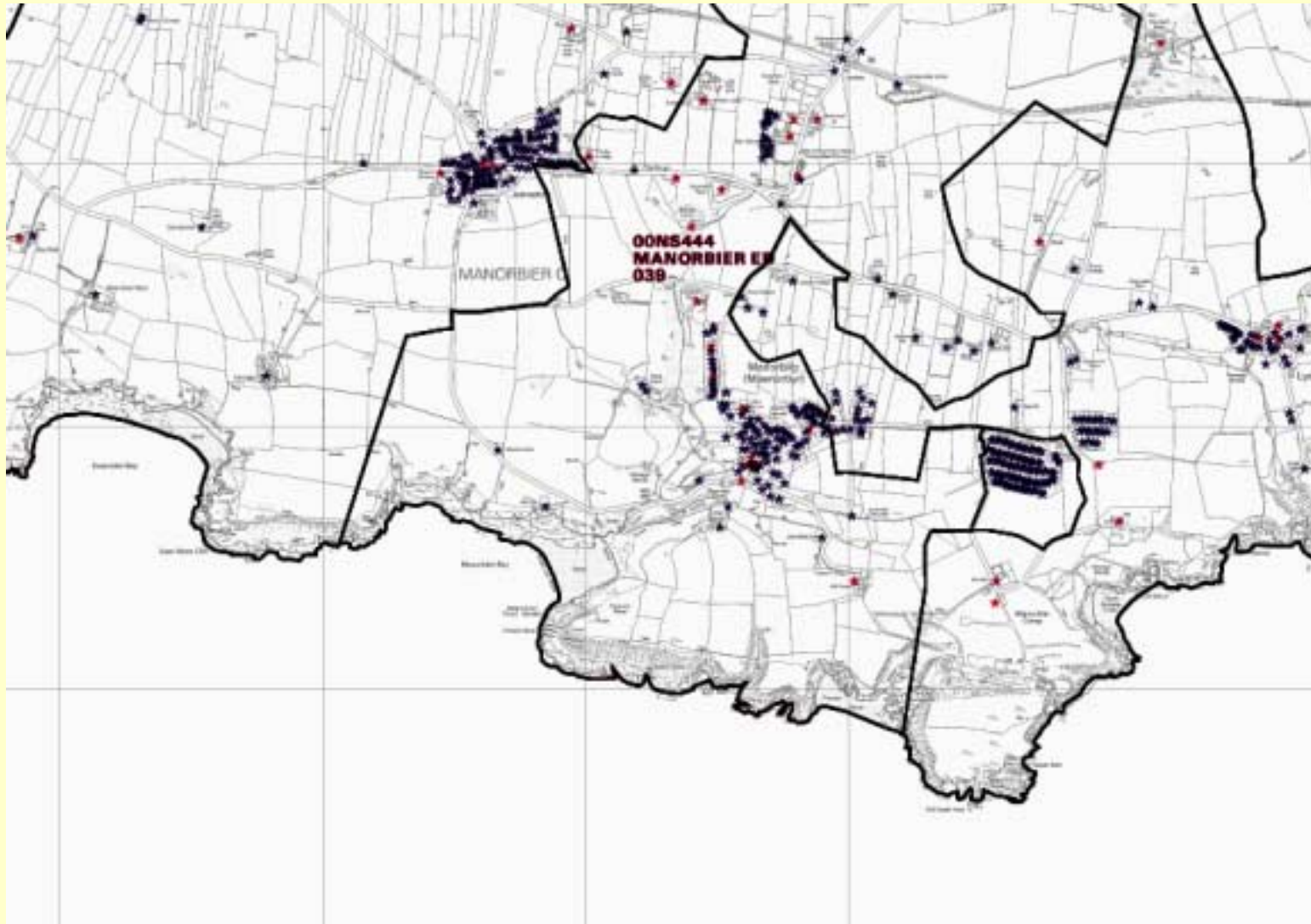
Homogeneity Algorithm

- Tenure PLUS Accommodation Type.
 - Combination
 - More categories
 - Operates effectively nationally and creates OAs with more consistent internal characteristics.
 - Intra Area Correlation (IAC) Measure
 - Groups together unit postcodes with similar mixtures of categories,
 - Successfully implemented using the test area data.

Recognising Settlements

- Current Research
 - Use DTLR boundaries
 - Urban PCs : PCs with addresses within urban areas
 - Identify clusters of addresses
 - group postcodes where addresses cluster at the postcode boundaries (subject to other constraints)

Example



Sub Confidentiality Threshold Parishes

- Identify potential sub-threshold wards and parishes using 1991 data
- Use 2001 data for validation
- Liaise with Local Authorities
(Nov 01 - Jun 02)

Products and Services

- OA Boundaries
 - High and low resolution / Formats
- OA Centroids
- Look Up Tables
 - OA to Postcode, OA to Parish/Community plus updates
- OA Area Measurement (hectares)
- Geography Meta-data

Products and Services

- Secondary Products
 - Boundaries of populated land
 - Hard copy reference maps
 - eg OA boundaries on OS base maps
 - Look up tables
 - OA to non standard areas

Products and Services

- Integrated packages
 - Census Access / Neighbourhood Statistics
 - Web delivery
 - Mapping functionality