



- Result will be a better basis for Census but $\underline{\text{NOT}}$ a list for general public use

Address register development process

- ONS matches 3 national address files Royal Mail - PAF IDeA - NLPG
 - Ordnance Survey AL2
- · Matching based on address reference, text and spatial relations
- Mismatches sent to IDeA, RM and OS for resolution
- Remaining mismatches sent to LAs for resolution
- ONS checks addresses on ground in c. 30% of areas where most uncertainty remains

 Also looking for missing addresses and multiple occupation
- Ongoing change updates from OS and IDeA
- Currently piloting with RM,OS, IDeA and 24 LAs

Address matching process

- combination of data linking, textual comparison and testing of spatial relations
- each matching algorithm is applied independently
- a confidence level is generated from the different and combined match results
- resulting residue of addresses with low match confidence are prioritised according to type of mismatch
- unresolved addresses are provided to national address data suppliers and LAs to help resolve

Priority	of	unresolved	addresses
	•••	ann 000110a	aaa100000

The **Priority indicator** is related to the type of address-matching and confidence level achieved by ONS

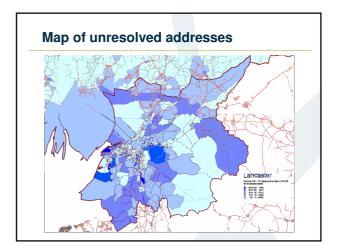
Priority	Description	Form of match
10-12		Complex – Purely Residential Complex – Mixed Commercial and Residential
6-9	Address should be validated by LA if resources permit	Unmatched addresses outside of buildings Flat mismatches Addresses from one product not matching addresses from other products Duildinesse
1-5	Validation not required Not sent to Suppliers / LAs	Buildings Missing Addresses Classification Mismatches Many-to-One relationships Missing New Entries Purely Non Residential Address matched with low confidence

Anomaly Key	BS7666_SAON	BS7666_PAON	STREET
mgeo:3000000011	GROUND FLOOR AND FIRST FLOOR	10	GROSVENOR GARDENS
mgeo:3000000011	SECOND FLOOR FLAT	10	GROSVENOR GARDENS
mgeo:3000000011	THIRD FLOOR FLAT	10	GROSVENOR GARDENS
PAF/AL2			
PAF/AL2	Sub_Building	Building_Number	Street_Name
	Sub_Building	Building_Number	Street_Name GROSVENOR GARDENS
Anomaly Key			
Anomaly Key mgeo:3000000011	FLAT 2	10	GROSVENOR GARDEN

•	Projected target results presented in July 08	

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'First cut' results achieved by August 08
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Matching algorithm	Projected	First Cut	Sec Cut
Reference match	72 %	72 %	72 %
extual match	87 %	87 %	88 %
Spatial match	89 %	89 %	90 %
nmatched addresses resolved y additional Textual and Bureau atch by ONS	94 %	<96 %	<97 %
nmatched addresses resolved dditional matching by suppliers	95%	<97%	<99.5%
nresolved address residual to As	5 %	<3%	<1%



Addressing pilot - key lessons learnt (so far)

- Frequent synchronisation of address data from suppliers - from monthly to either weekly or daily The importance of VOA and alias addresses in the matching
- . process
- Avoiding duplication of work already done by other parties .
- . Improve LA boundaries in PAF (postcode geog ≠ admin) Estimate this will reduce unresolved addresses by 0.5 %
- Incorporate matching processes of address data suppliers into ONS methodology .
- Improved communication with LAs
- support for LA resolution from top of the office needed New process of change management needs development
- to bring in resolved and new addresses in a managed way

Going Forward

- Address matching has proved to be very successful
- The real challenges going forward are:
 - Capturing New Addresses
 - Identify Multiple Occupancy
- · Gaining support from key stakeholders, particularly LAs.
- Developing a slick and simple process for • change management and communication