

# **Notes on methodology**

Recalculating 2010 IMD data from 2001  
to 2011 boundaries

## **Changes in boundaries**

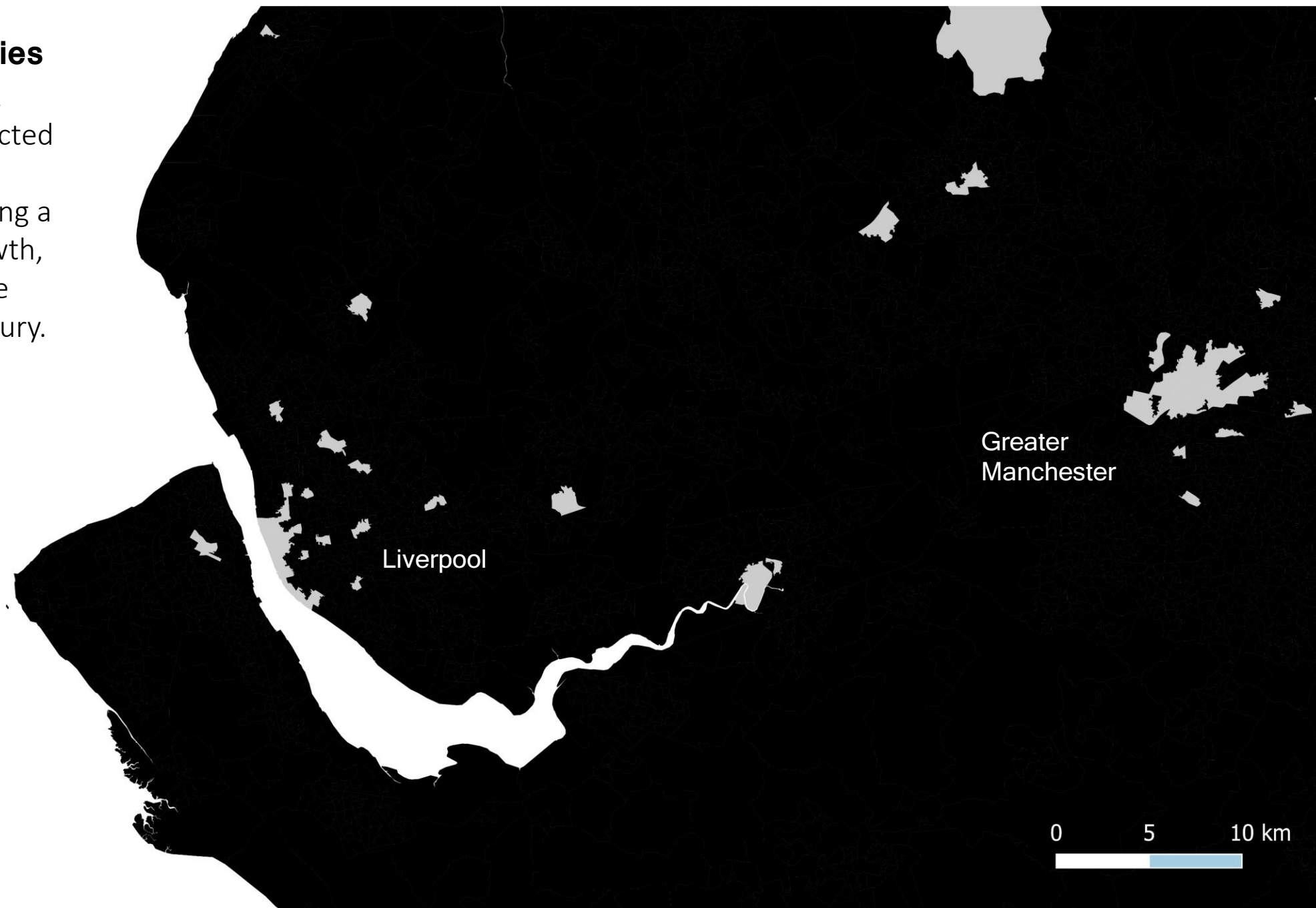
Between 2001 and 2011, changes in the distribution of the population led to a change in the boundaries of LSOA.

To include 2010 IMD data in the analysis, it was necessary to recalculate the 2010 data into the new 2011 boundaries.

As such, the number of LSOA increased from 32482 in 2001 to 32844 in 2011.

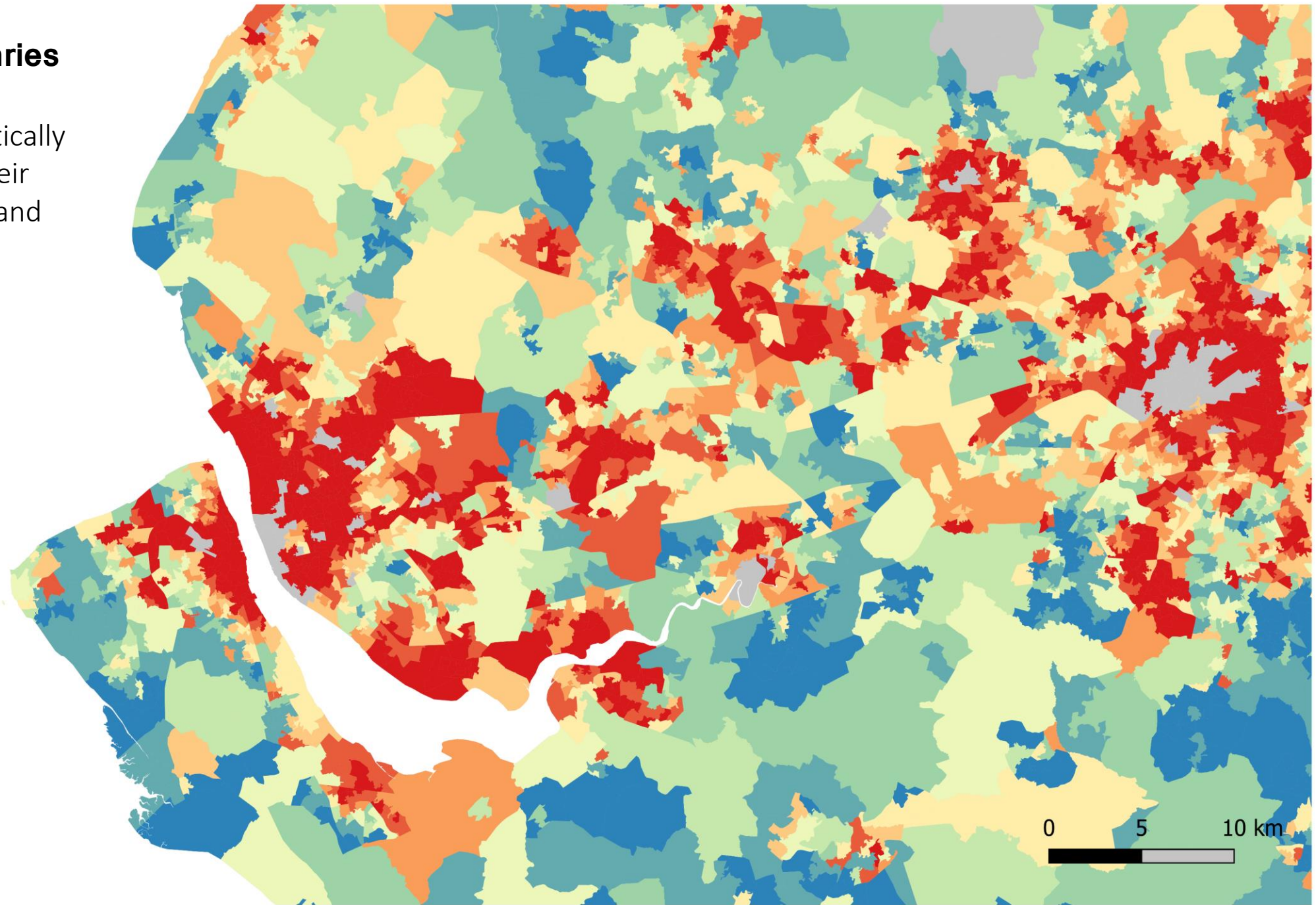
## Changes in boundaries

between 2001 and 2011  
disproportionately impacted  
LSOA in major urban  
conurbations experiencing a  
surge in population growth,  
following relative decline  
during the late 20<sup>th</sup> century.



## **Changes in boundaries**

are useful, highlighting areas that have dramatically changed in terms of their population structure - and likely their deprivation classification!!



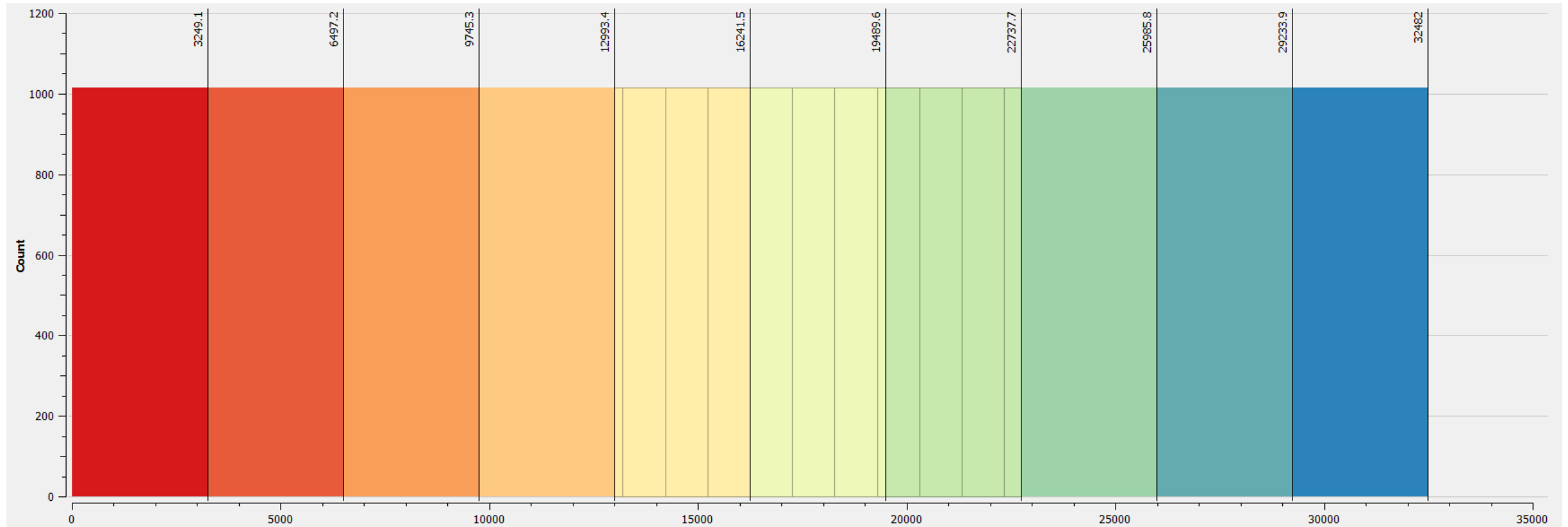
# Types of boundary change

Type	Frequency	Change
Unchanged	31672 (2001) 31672 (2011)	Translate directly from 2001 to 2011 boundaries
Split	336 (2001) 881 (2011)	Single LSOA split into multiple LSOA and assigned the same deprivation rank
Merge	293 (2001) 146 (2011)	Multiple LSOA aggregated into a single LSOA with an average deprivation rank
Irregular	151 (2001) 151 (2011)	Assigned the closest LSOA in the 2011 boundary using population centroid
Not applicable	4 (2011)	No matching LSOA from 2001 boundaries

*Based on ONS (2011) Look-up table: <https://bit.ly/3adO5qp>*

# Histogram: IMD 2010 data in 2001 boundaries

Even distribution of deprivation ranks between each decile



# Histogram: IMD 2010 data in 2011 boundaries

Slight variation in deprivation ranks within each decile.

No deprivation decile has changed by greater than +/- 1%.

