Population Data

This document describes how to produce the population data for the City Leeds Region at the LSOA level. You can obtain the raw 2011 Census population data from the ONS Neighbourhood Statistics website. Download the data (as csv files) for The Yorkshire and Humber region and unzip. In this presentation we will need the population data aggregated at the LSOA level so place the appropriate csv file in a folder. We will then extract the LSOA codes and corresponding total population data (columns 7 and 13) and merge the population data with the spatial data for Leeds City Region.

```
library(rgdal)
setwd("~/Leeds_City_Region")

# Import population data
pop <- read.csv("KS102EW_2596_2011SOA_YORK_LSOA.CSV")[,c(7,13)] # Select appropriate columns

# Import spatial data
LCR_lsoas <- readOGR(".", "LCR_lsoas")

# Merge data
LCR_lsoas@data <- data.frame(LCR_lsoas@data, pop[match(LCR_lsoas[,1], pop[,1]), ])
```