

## **Appendix 2.** Detailed methods for data collection of drivers

### **Education**

We used the percentage of the adult population in each municipality that has some amount of secondary education as a proxy for education. This data is online and publically available. We compiled data for all 62 municipalities for the most recently available year (2013) (SCBa).

### **Income**

We used the median net annual income of people 20 years or older for each municipality. This data is online and publicly available. While income is log normally distributed, the average income is fairly equal across the region and more normally distributed. We compiled data for all 62 municipalities for the most recently available year (2012) (SCBb).

### **Wealth**

Wealth is calculated as the difference between the total amount of assets, both financial and real, and the total amount of debts. This measure indicates a person's net worth and is part of one proxy for development. It is calculated per person and then an average was calculated for each of the 62 municipalities for the most recently available year (2007) (SCBc).

### **Population density**

We used the log of population density per square kilometer. We log transformed this data due to the huge range of population densities present between urban and rural areas. This data is online and publicly available. We compiled data for all 62 municipalities for the most recently available year (2013) (SCBd).

### **Arable land**

Arable land was calculated by taking the percentage of total land area of each municipality that is classified as arable land by the statistic bureau of Sweden. The categories of land use are derived from the real estate assessment register. This data is online and publically available. We compiled data for all 62 municipalities for the most recently available year (2010) (SCBe).

### **Grazing land**

Grazing land was calculated by taking the percentage of total land area of each municipality that is classified as grazing land by the statistic bureau of Sweden. The categories of land use are derived from the real estate assessment register. This data is online and publically available. We compiled data for all 62 municipalities for the most recently available year (2010) (SCBe).

### **Forest area**

Forest area was calculated by taking the percentage of total land area of each municipality that is classified as forest by the database, Svenska Marktäckedata. The data is online and was at the time accessed through Lantmäteriet, now available from Naturvårdsverket. We compiled data for all 62 municipalities for the most recently available year (2012) (NVV 2015).

### **Built up land**

Built up land was calculated by taking the percentage of total land area of each municipality that is classified as built up land by the statistic bureau of Sweden. The categories of land use are derived from the real estate assessment register. This data is online and publically available. We compiled data for all 62 municipalities for the most recently available year (2010) (SCBe).

### **Distance from Stockholm**

We calculated distance from Stockholm using QGIS and centroids of the municipalities.

### **Slope**

Slope was calculated using QGIS and 50m altitude raster files supplied by the Swedish University of Agricultural Sciences. This data is available to academic institutions (Lantmäteriet 2014).

### **References**

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