Appendix 2b – Data preparation: Building preparation

Population data:

* Copernicus: Urban atlas data from 2018
* Population mostly aggregated on block level
  + Multiple buildings aggregated
* How does Copernicus get / disaggregate population data?

Buildings:

* OpenStreetMap
* Downloaded for UA FUAs and clipped to city core (Manu’s Layer)
* Buildings selected inside UA residential classes
  + Classes: 11100, 11210, 11220, 11230, 11240, 11300
* UA population disaggregated by building area

1. First approach:
   1. Building area of all buildings summed in each UA polygon
   2. UA population distributed to buildings based on their share of overall building area
2. For buildings that are located inside UA residential polygons with population 0:
   1. calculated average population per building area for each UA residential class in each downloaded OSM tile
   2. multiplied resulting value with building area