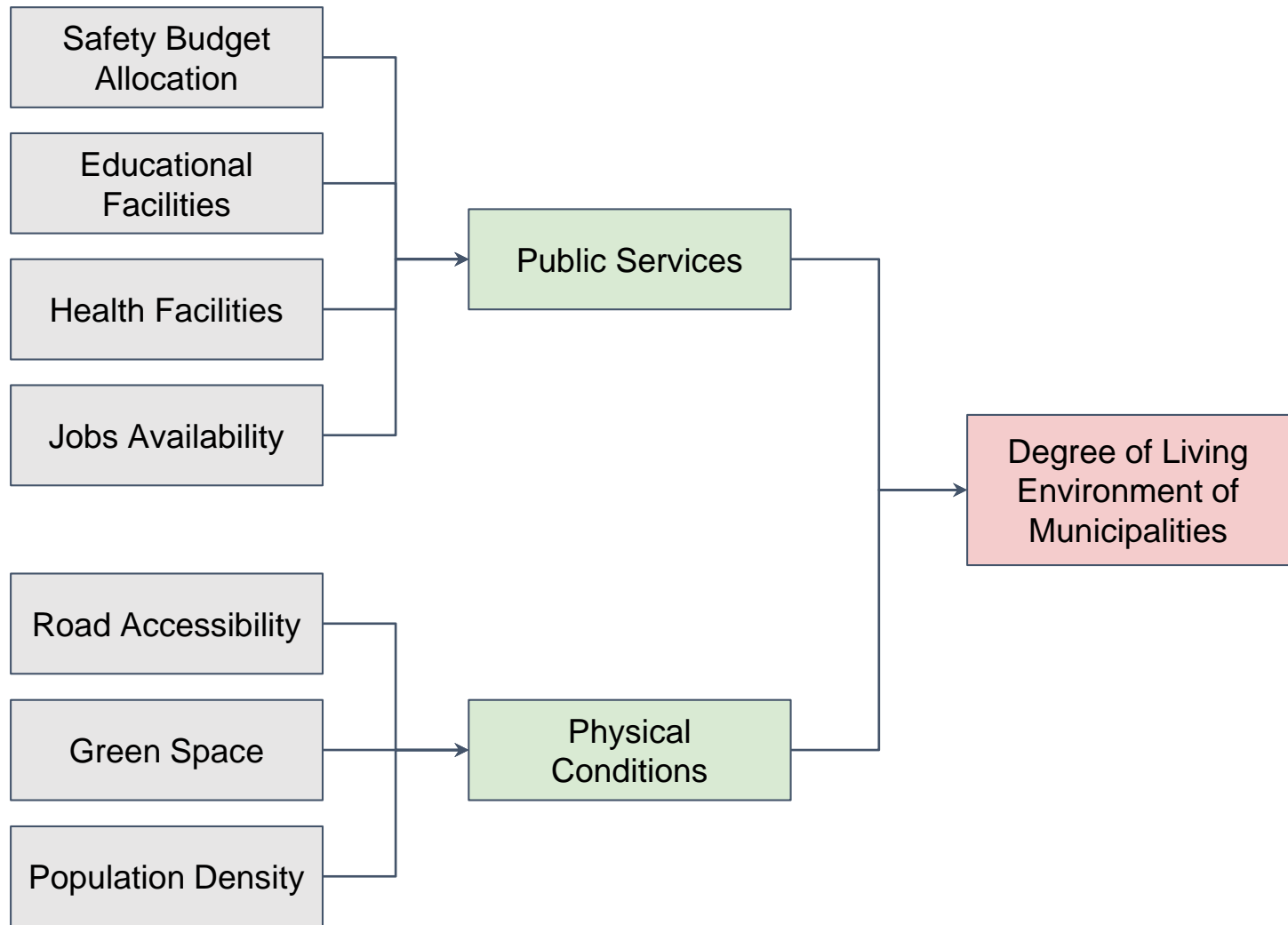


GROUP 3: OVERIJSEL ATLAS OF LIVING ENVIRONMENT

ASSIGNMENT OF MODULE 9 -- MAP DESIGN

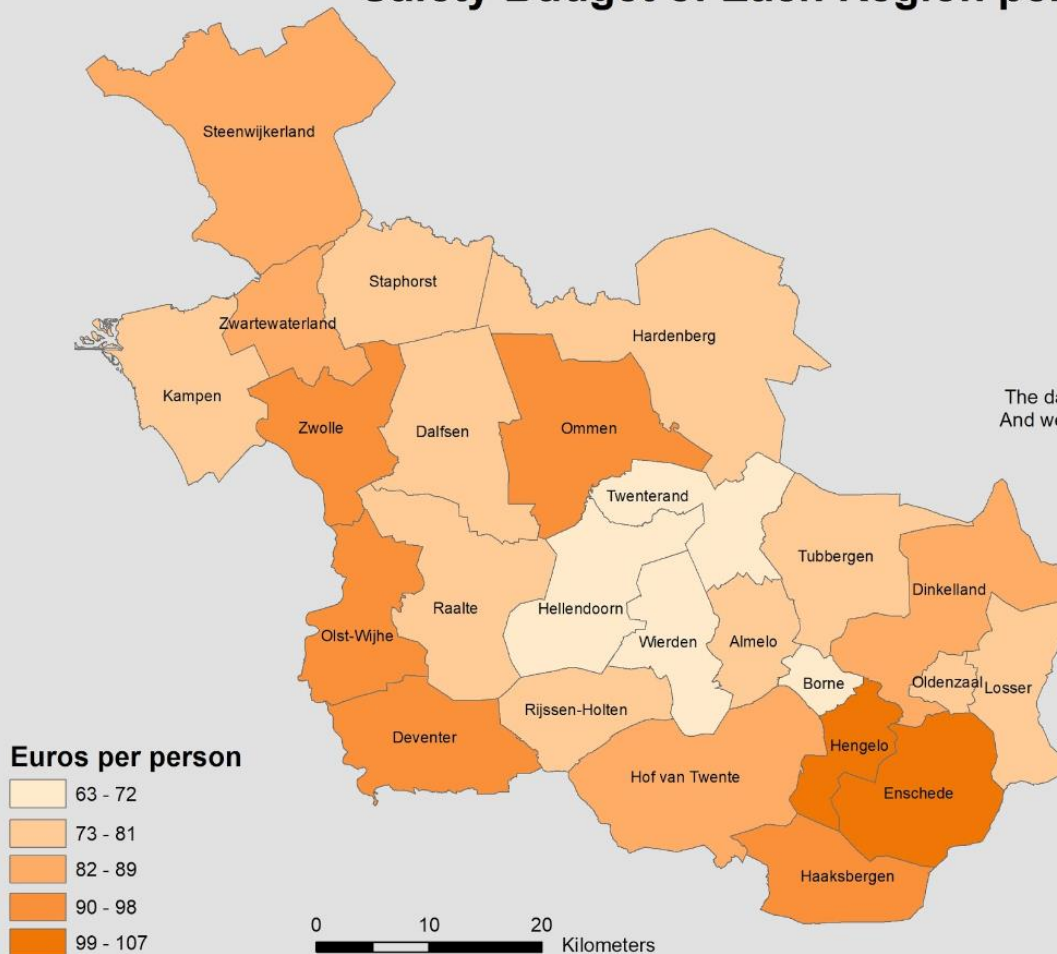
1. JACOB AZUMAANA ADIGI
2. XIANGHAO CHANG
3. GERARDO MARTIN MACEDO RODRIGUEZ
4. QIAO REN
5. RATNA MAYASARI

LIVING ENVIRONMENT FACTORS



Safety Budget Allocation

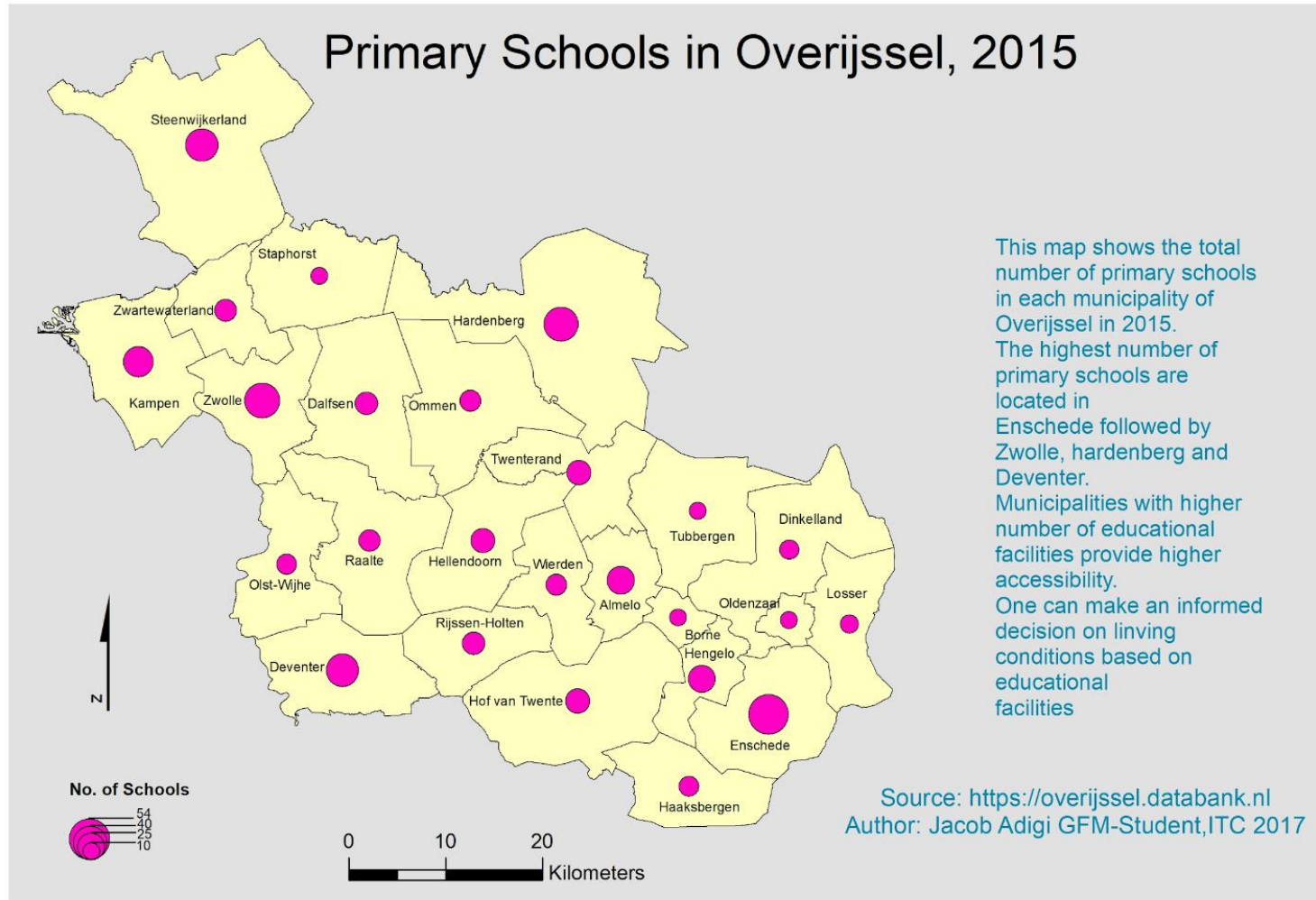
Safety Budget of Each Region per inhabitants



The data is collected from the databank Overijssel.
And we classified it using the equal interval method.

Source: Databank Overijssel
Author: Xianghao Chang, GFM-ITC, 2017

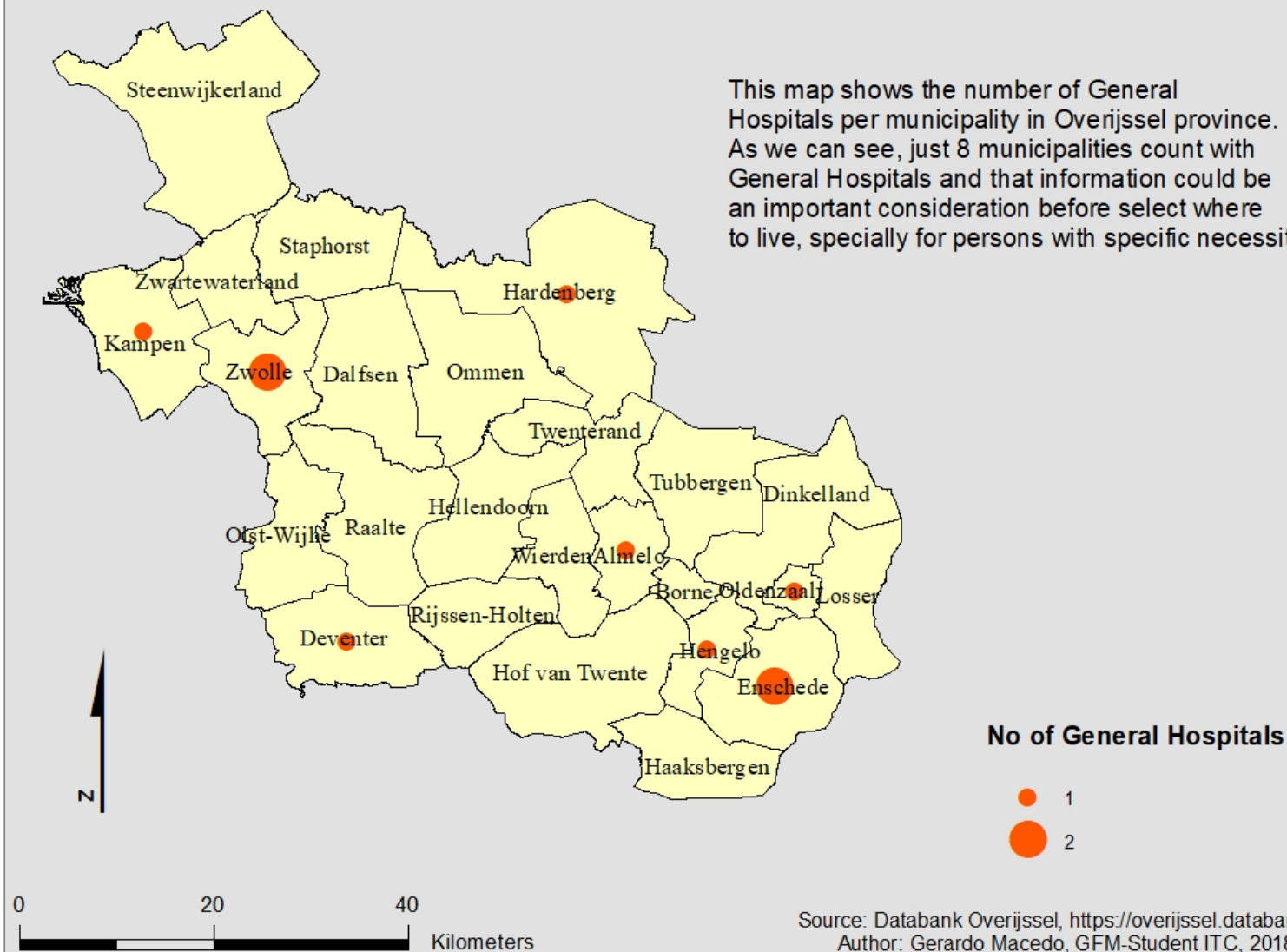
Educational Facilities



Health Facilities Map (1) General Hospitals

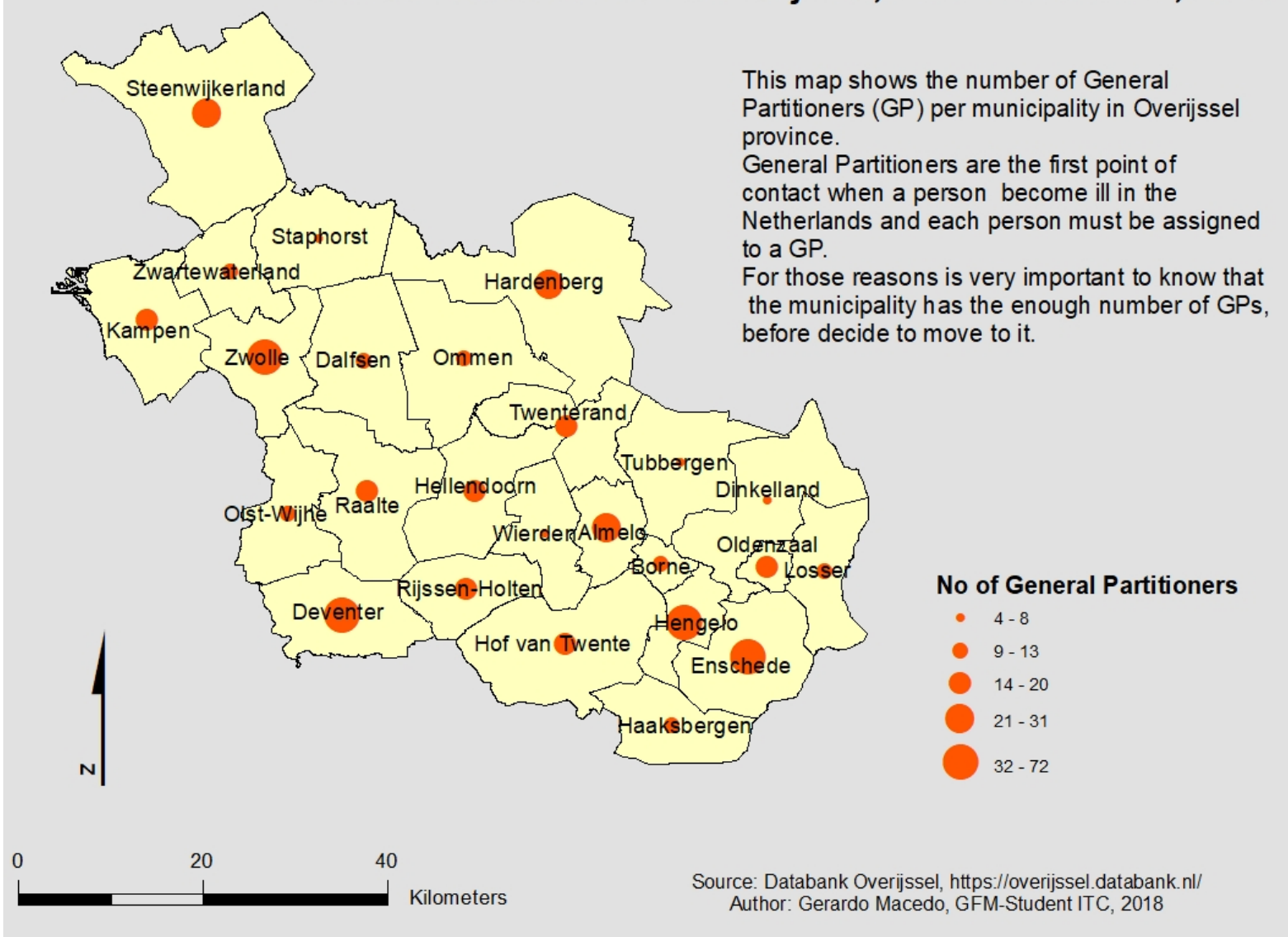
General Hospitals in Overijssel, The Netherlands, 2013

This map shows the number of General Hospitals per municipality in Overijssel province. As we can see, just 8 municipalities count with General Hospitals and that information could be an important consideration before select where to live, specially for persons with specific necessities.



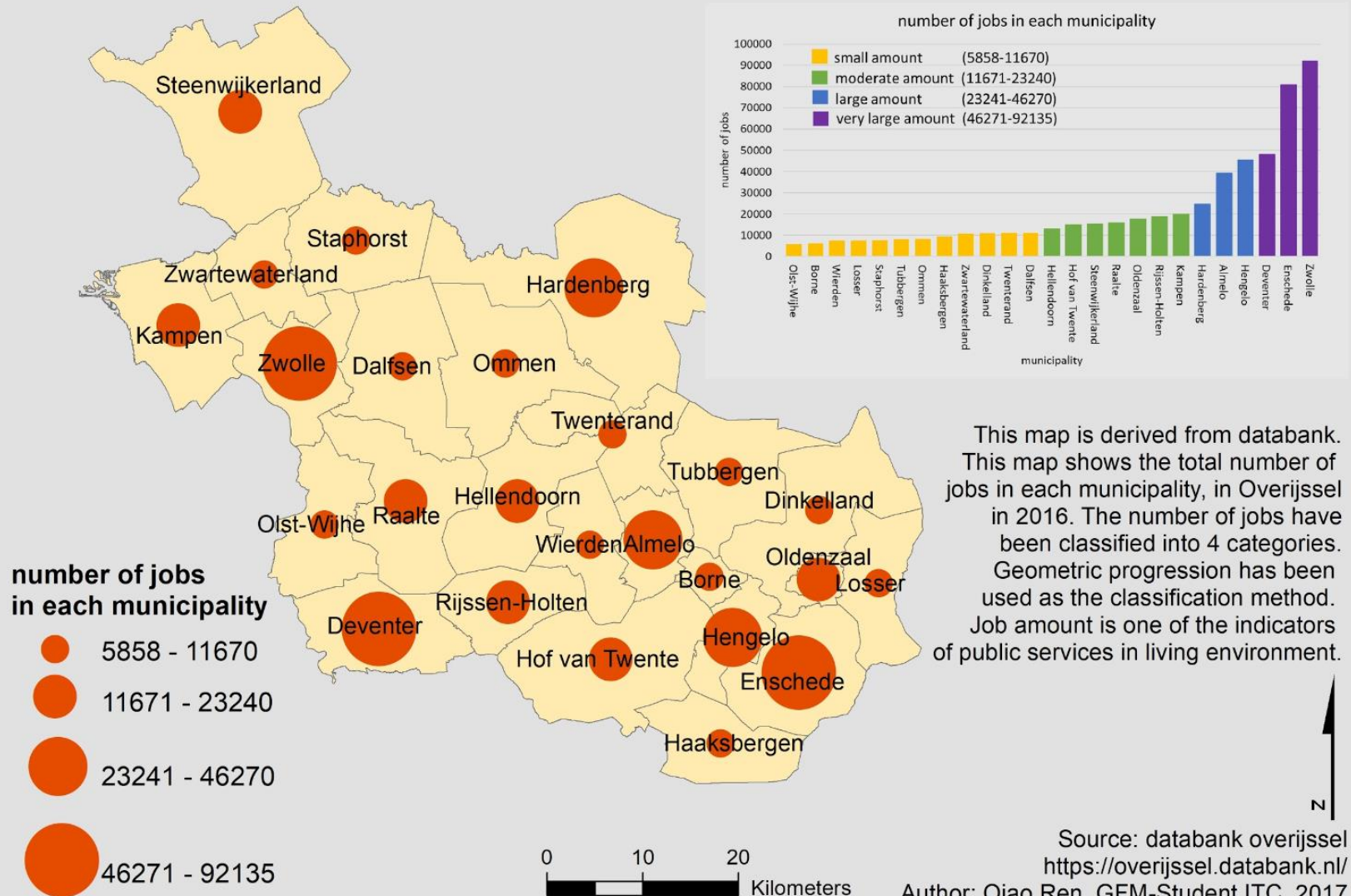
Health Facilities (2) General Practitioners

General Partitioners in Overijssel, The Netherlands, 2013



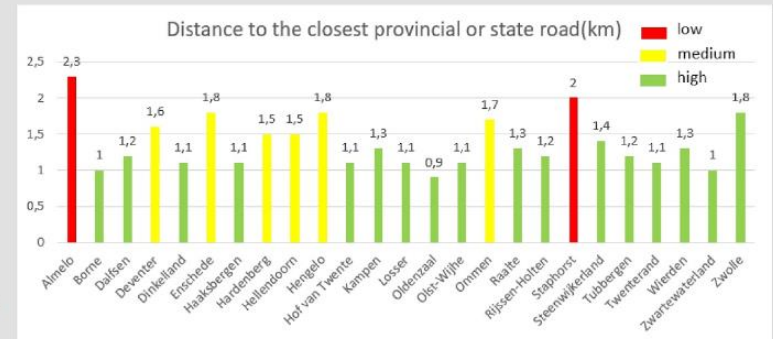
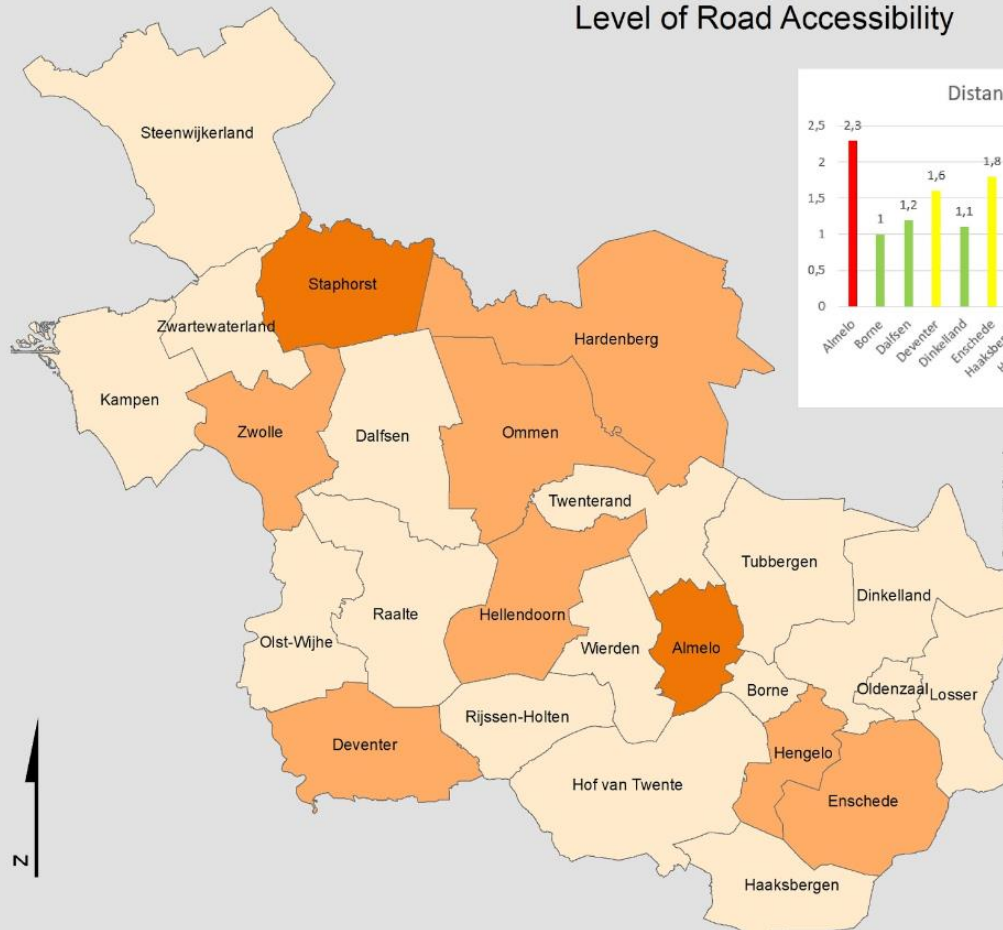
Jobs Availability

Number Of Jobs In Overijssel, the Netherlands, 2016



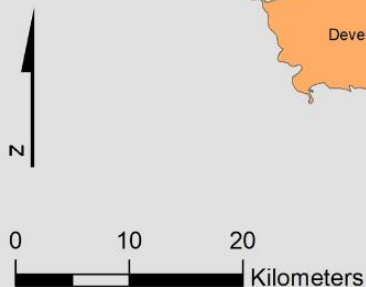
Road Accessibility

Level of Road Accessibility



The data of the road accessibility is collected from the CBS which shows the distance to the closest provincial or state road. In the bar chart, we classified the distance into three different level using equal interval classification method. And plot the data in choropleth map.

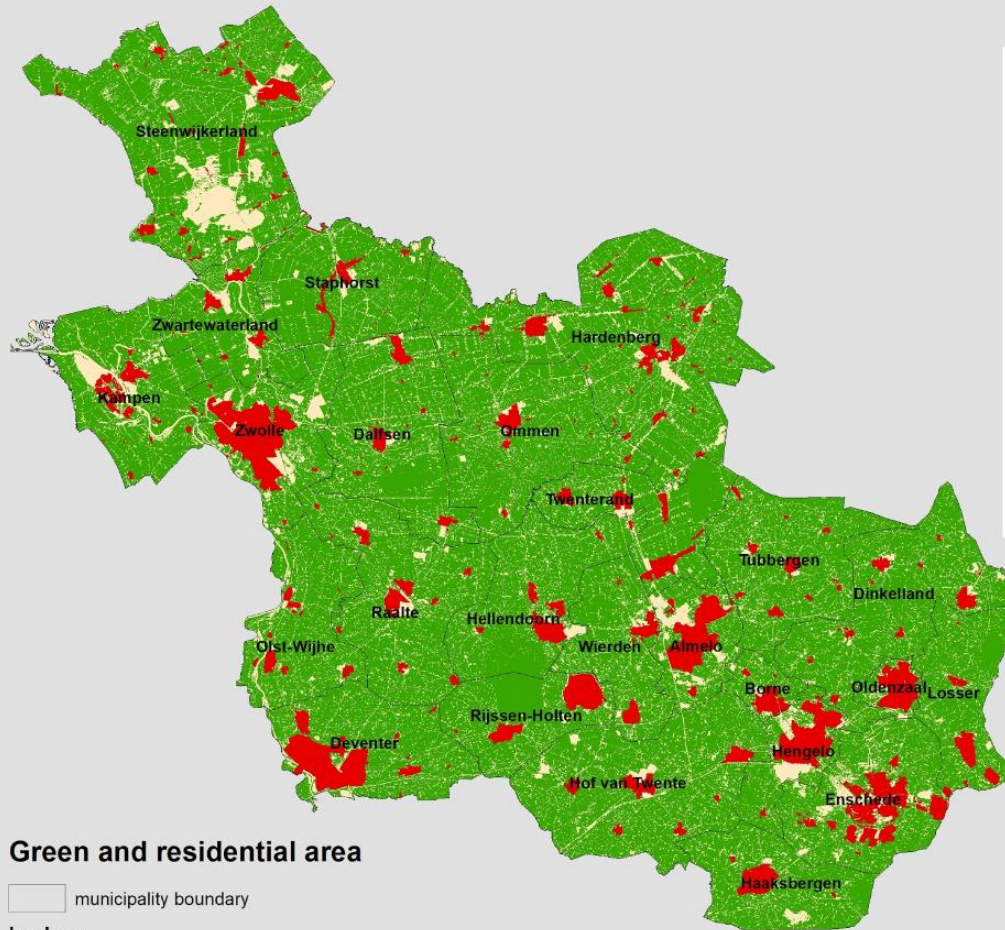
Level of road accessibility



Source: Central Bureau of Statistics data for municipalities and neighbourhoods of The Netherlands
 Author: Xianghao Chang, GFM-ITC, 2017

Green Space

Green Space in Overijssel



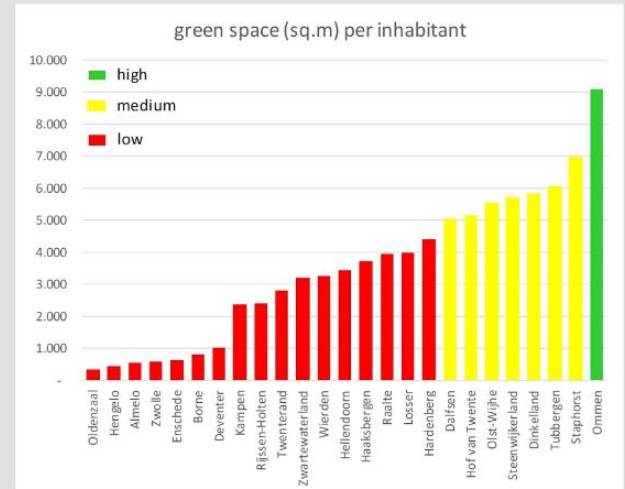
Green and residential area

— municipality boundary

landuse

- green area
- others
- residential

0 10 20
Kilometers



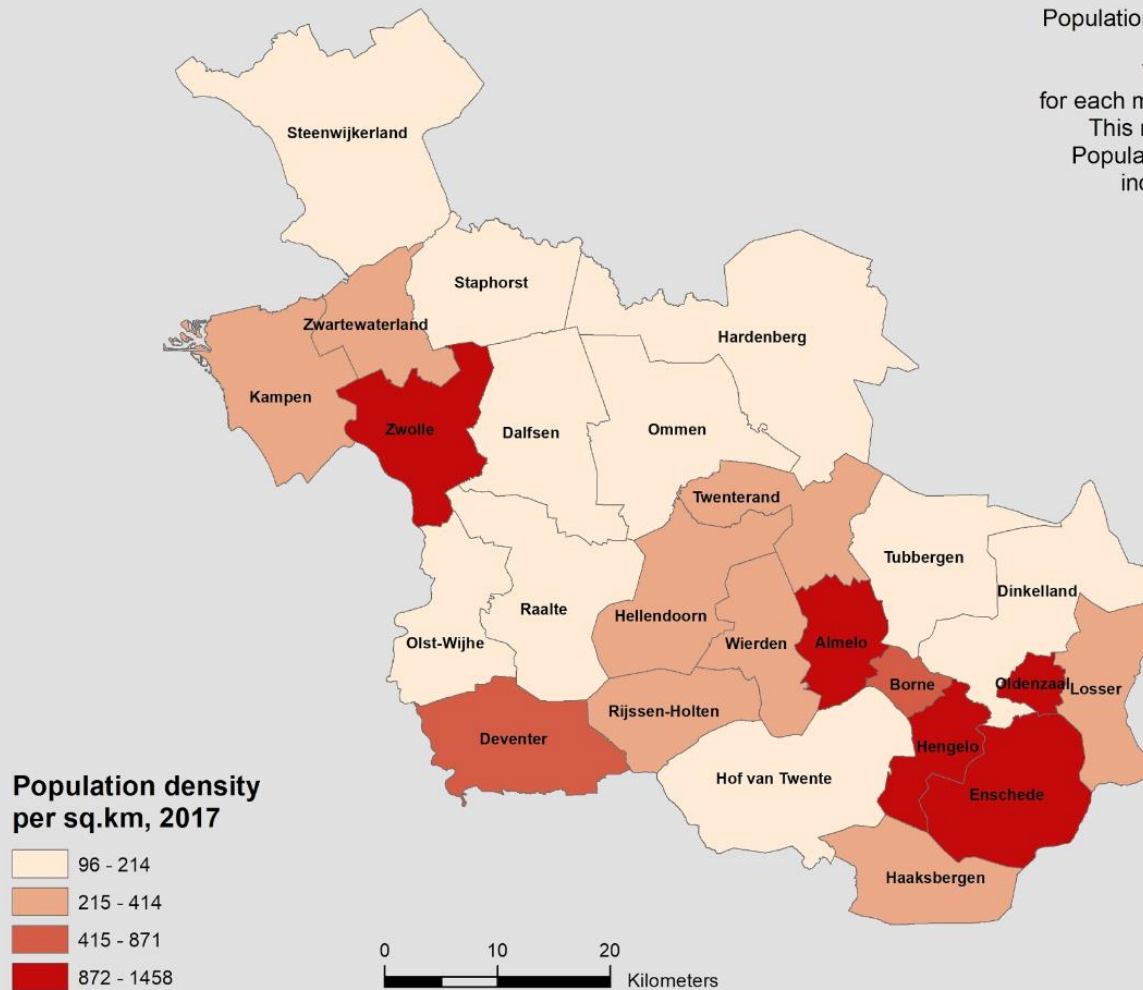
Green space in Overijssel is derived from land use data of Netherlands that provide by from the Open Street Map (OSM) data. It reclassified into 3 classes: green area, residential and others. Green area provides the green space in square meter per inhabitant and residential area display where is the population living in each municipality. Green space is one of the physical condition indicator for degree of the living environments.

Source: Open Street Map data
Author: Ratna M, GFM-Student ITC, 2017

Population Density

Population Density in Overijssel

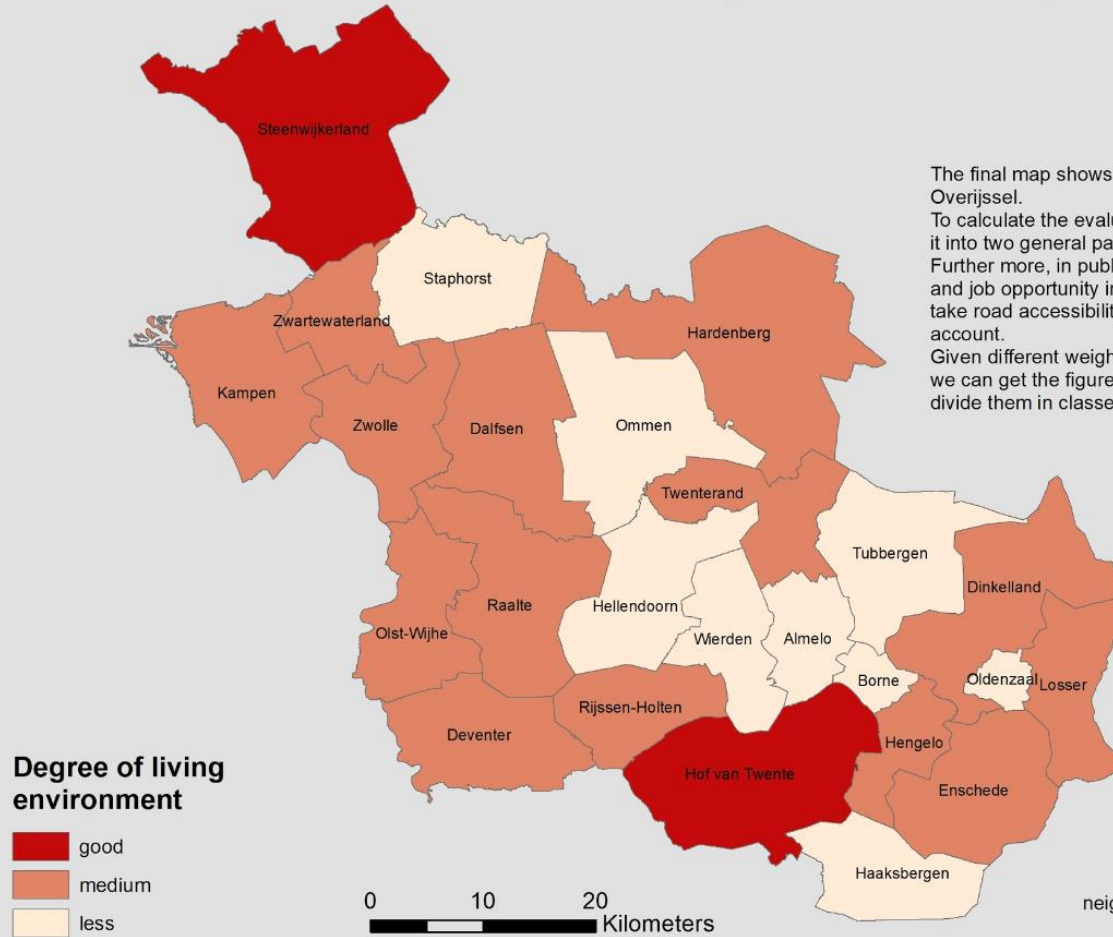
Population density for each municipality in Overijssel is derived from the databank of Overijssel. They provide the data of population density for each municipality per square kilometer each year. This map displays the population density in 2017. Population density is one of the physical condition indicators for degree of the living environment.



Source: databank of Overijssel
Author: Ratna M, GFM-Student ITC, 2017

Degree of Living Environment

Three classes of living environment in Overijssel



The final map shows the level of the living environment in the Overijssel.

To calculate the evaluation of the living environment, we consider it into two general part in public services and physical conditions.

Further more, in public services, we take safety, health, education and job opportunity into account. And in physical condition, we take road accessibility, green space and population density into account.

Given different weight to these factors and classified the data, we can get the figure as index of the living environment and divide them in classes.

Source: Databank Overijssel, Central Bureau of Statistics data for municipalities and neighbourhoods of The Netherlands, open street map data
 Author: Group3-Module9, 4/2018

Problems Encountered

- Time constraint
- Data incomplete or indirectly
- Visualize the data using the proper visual variables
- Challenge on choosing the optimal classification method for data
- Weight is set by ourselves, which need more accurate referenced data



Thank you!