

The Battle of Neighborhoods

Amsterdam city, The Netherlands

This paper scope is covering the Capstone project - week 1 requirements, with focus on Sources of Data and information extracted (features)

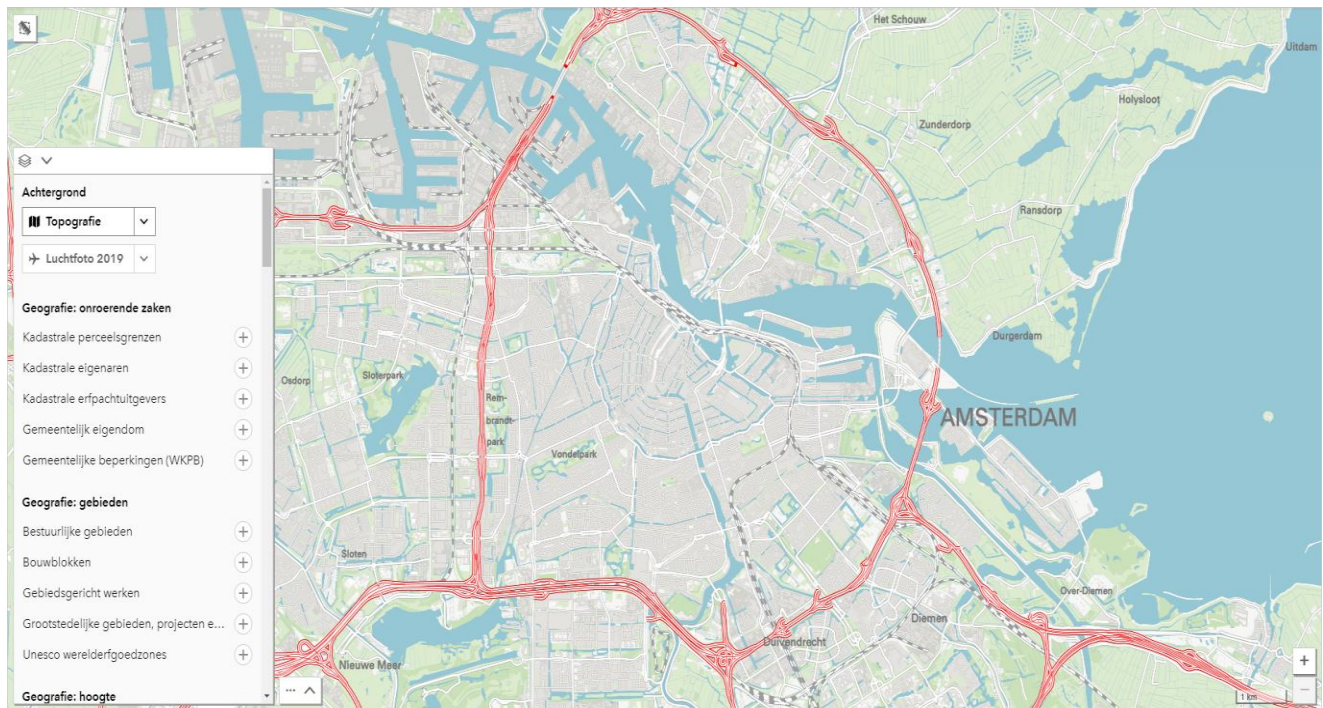
The data used for acquisition and preprocessing in this project will be open public data available from:

- https://en.wikipedia.org/wiki/Boroughs_of_Amsterdam
- <https://en.wikipedia.org/wiki/Amsterdam>
- <https://data.amsterdam.nl>
- <https://www.europeandataportal.eu/en/news/explore-datasets-municipality-amsterdam>

We will be using Wikipedia information set to retrieve Amsterdam Boroughs data, Foursquare API and geopy together with additional data from Amsterdam open data portal to retrieve venues information in Amsterdam Boroughs and process them using location clustering and filter / count relevant information (we are interested in restaurants locations).

We will be analyzing the restaurants 'density' per Borough and provide a conclusion with options where is the best location to open the new restaurant.

Sample view from data.amsterdam.nl portal under which open datasets are grouped in categories:



The dataset used for the analysis and feature extraction will include:

- Amsterdam boroughs / neighborhoods
- Venue type and locations (Foursquare API)
- Boroughs segmentation
- Geolocation data
- Boroughs Demographics
- Cuisine types (optional) as Amsterdam is mixed international cuisine
- Supply chain availability (fresh products direct from producers)