

# Distribution of Healthcare Service in Johannesburg

# Background

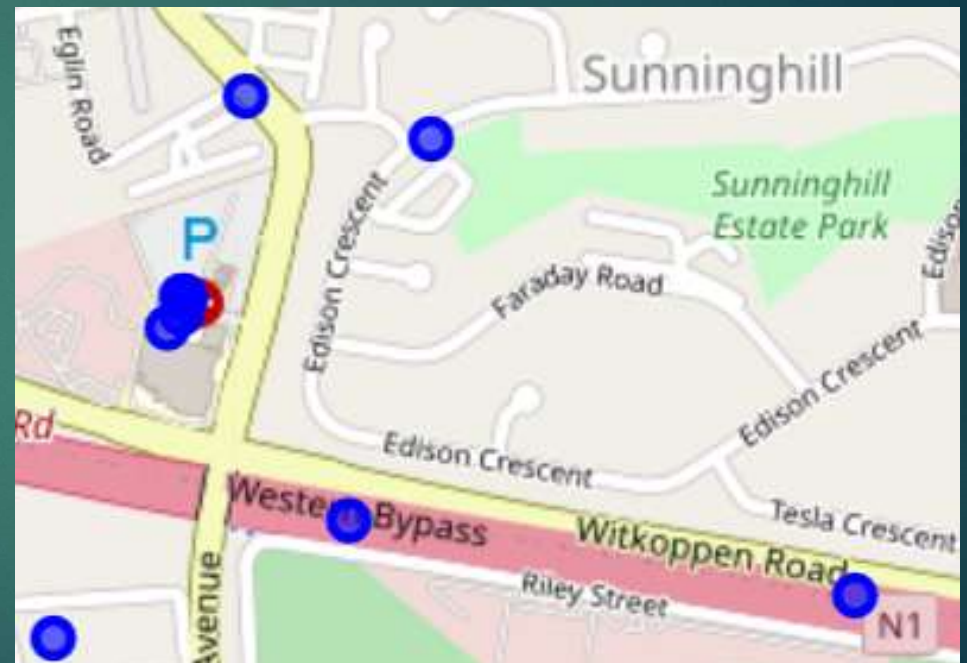
- ▶ City of Johannesburg an economic hub
- ▶ Centre of attraction for migrants
- ▶ High concentration of residents as it's the most populous
- ▶ Need for healthcare to be evenly distributed

# Data Sources, Tools and Cleaning

- ▶ List of suburbs sourced from Wikipedia  
([https://en.wikipedia.org/wiki/Category:Johannesburg\\_Regions\\_A](https://en.wikipedia.org/wiki/Category:Johannesburg_Regions_A))
- ▶ Scraped using BeautifulSoup
- ▶ Geocoder used to obtain GPS coordinates
- ▶ Foursquare used to obtain list of healthcare centres
- ▶ Three cities out of 51 removed as nonetypes

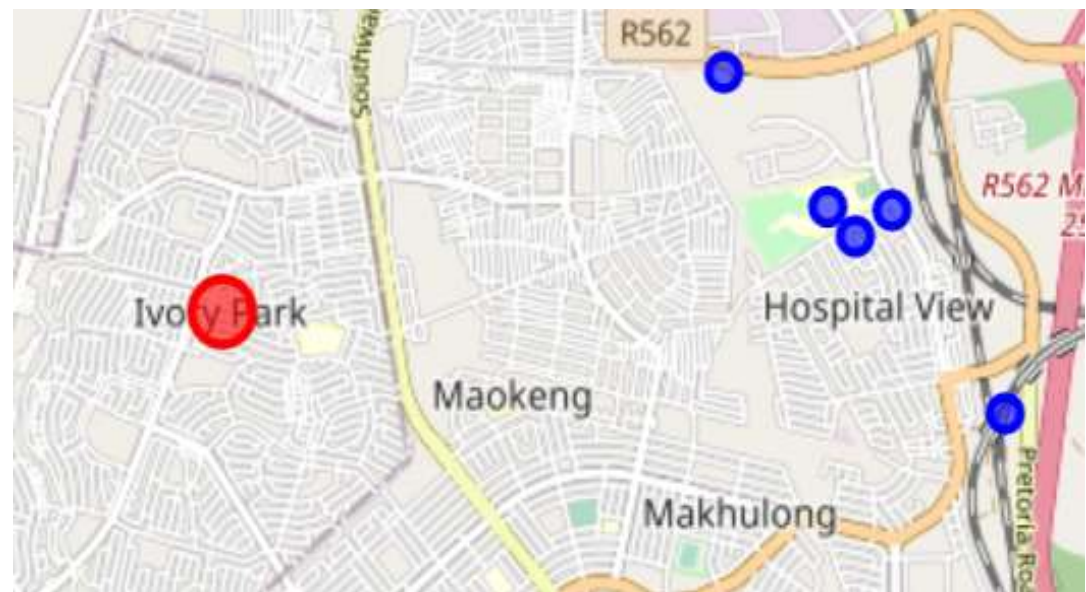
# Results

- ▶ High concentration in affluent suburbs
- ▶ Most facilities are private institutions
- ▶ Sunninghill, an affluent suburb, has at least 24 facilities



# Results - continued

- ▶ Less affluent suburbs have less facilities.
- ▶ Ironically, these suburbs have higher populations and concentrations
- ▶ Ebony (less privileged suburb) has only facilities.



# Conclusion

- ▶ More facilities should be built in less affluent facilities
- ▶ Possible partnering of the private institution to 'give back' by provision of basic services and emergencies for free