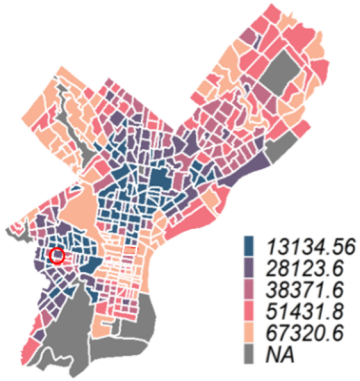
Hasa Reddy

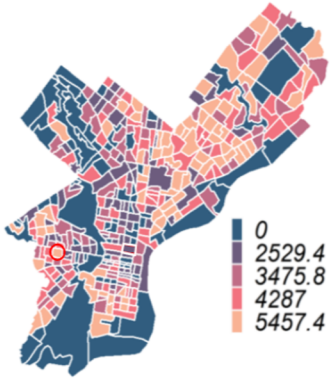
Income, population and poverty map

Detailed information of test bed site.

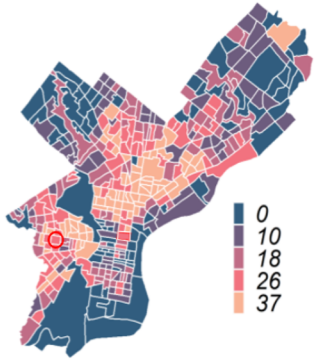
Site location



Map of median household income



Map of total population



Map of percentage of poverty

Income

$17,039
Per capita income

about three-fifths of the amount in Philadelphia: $27,924

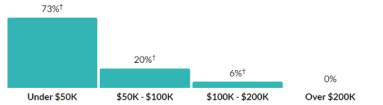
about three-fifths of the amount in Philadelphia County: $27,924

$33,429
Median household income

about three-quarters of the amount in Philadelphia: $45,927

about three-quarters of the amount in Philadelphia County: $45,927

Household income



Show data / Embed

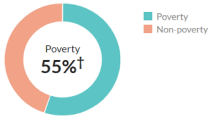
Poverty

35.6%
Persons below poverty line

about 1.5 times the rate in Philadelphia: 24.3%

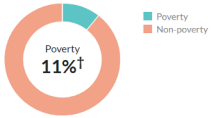
about 1.5 times the rate in Philadelphia County: 24.3%

Children (Under 18)



Show data / Embed

Seniors (65 and over)

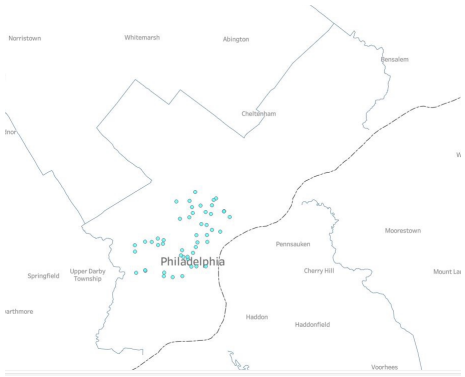


Show data / Embed

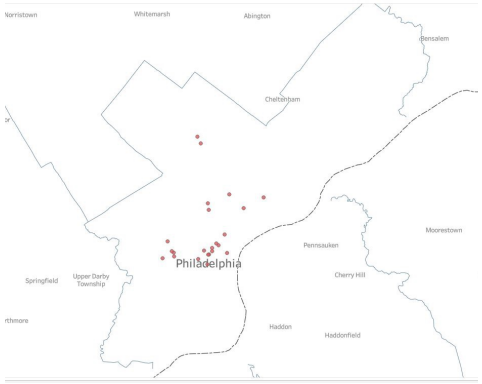
https://censusreporter.org/profiles/14000US42101008102-census-tract-8102-philadelphia-pa/

Testbed: Census tract 85, bounded by Market Street, South 50th Street, Pine Street and South 55th Street.

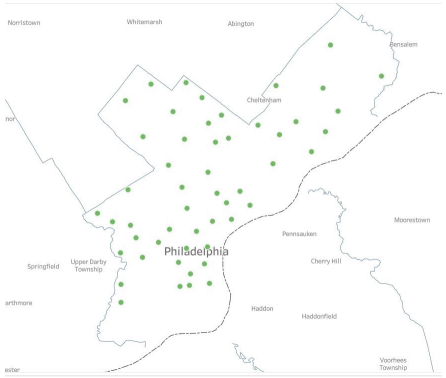
Data Presentation



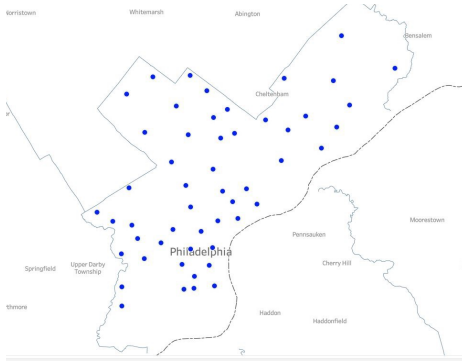
PhilAbundance Locations



General Meal Locations

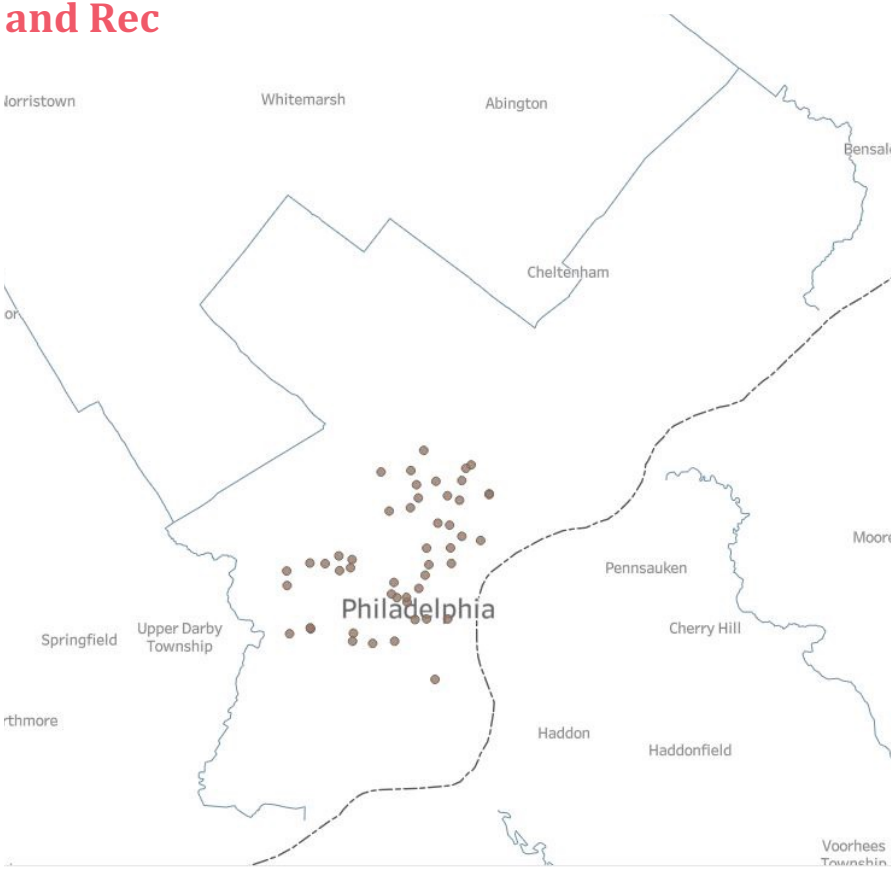


WiFi Locations

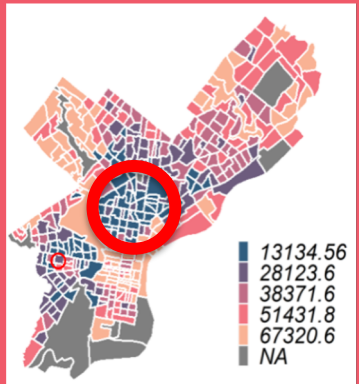


Parking Locations

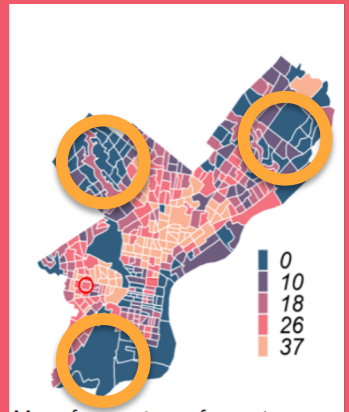
Parks and Rec




```
for i in range(len(df_parknrec)):
    par_lat,par_lon=df_parknrec.iloc[i,-4:-2].values
    for j in range(len(df_lib_loc)):
        lib_lat,lib_lon=df_lib_loc.iloc[j,-2:].values
        dis=haversine((par_lat,par_lon),(lib_lat,lib_lon),unit=Unit.METERS)
        if dis<=100:
            df_parknrec.iloc[i,-2]+=1
            df_parknrec.iloc[i,-1]+=(df_lib_loc.iloc[j,0]+'_')
```



Map of median household income



Map of percentage of poverty

Next steps and hurdles?

1. How to overlay the census data with flex network data set?
2. Trying to figure out how to locate the optimal locations in tracts that need these locations?