In this challenge, we had access to a dataset from housing market of Santiago de Chile, where we know a few details about different house transactions, such as the latitude/longitude coordinates, the transport accessibility context of the area, the characteristics of the household that bought the house.

The challenge consists of 3 parts, *preliminary analysis* about the dataset, *prediction challenge* and *exploratory part*.

The *prediction challenge* considers the problem of predicting the type of household that will buy the house, given the area characteristics. The type of household is given in the variable "CLASE". Such a model could help a real estate company, to advertise the house to the right segments, for example.

In the *exploratory component*, each we had to address at least one new research question. Some examples are:

- How is accessibility distributed across space? Are there particular areas that somehow relate to together? Can you explain why?
- Can we analyse how the city is distributed in terms of equity (e.g. are there many areas with poor accessibility and low income, and many others with high accessibility and high income)?

FInal report consists of 3 Jupyter notebooks.