

# Proposal Data Science

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*“Can we rate accurately student living standards of selected areas in Zurich based on available public data?”*

## Define the Challenge

We want to investigate how infrastructure affects the living standard within certain areas of Zurich. For this we will first analyse data provided by the city of Zurich to rate areas based on the living standard, price to living standard ratio and mobility. In the second phase we will use the Smart Agora platform to have people visit some areas to see whether they perceive the area the same as we rated it based on the data.

## Living standard

Living standard will be defined by us as a set of properties of well selected areas (infrastructure, environment, mobility/connectivity) within the city of Zurich.

Possible properties:

- Number of bus/tram/train stations in the neighborhood
- Lighting of the streets in the neighborhood
- Air quality of the surroundings
- Bike stations/pumping stations/rentals
- Size of crowds in the streets

## Process

- Collect public data from the web
- Come up with a rating of Zürich by analysing the data
- Collect perceptions of students from good/bad rated places with help of the Agora Platform
- Evaluate all the results

## Expected results

We plan to create a map of Zurich where color of selected locations will indicate quality of life in this location. Afterwards we will use data collected with help of Smart Agora to verify our results i.e. users will walk the selected areas and rate them according to their perceptions. Then the answer to our initial question will depend on match between results calculated from living standard properties and data collected from Smart Agora platform.