**CAPSTONE PROJECT: THE BATTLE OF NEIGHBORHOODS**

**Expats Location Engine**

1. **Problem Description:** Every year a great number of professionals change their home for mid or long term periods, accompanied most of the time by their families. For a newcomer in the town it is very difficult to make the decision on which side of the city to set foot and find an appropriate venue. Target Users: Relocation services, Expats, Exchange Program Services
2. **Data Used:** For this Location Engine data available on the Foursquare's API will be used. It will be used to check data in Munich, Germany in terms of their neighborhoods. The data used includes information about different venues and their neighborhoods. Population, Average Income per Neighborhood, Demographics will be integrated too.
3. **Methodology and description of the data**

The choices are targeted to the different profiles that the interested might have:

* Single
* Family

This will be crossed on a matrix base with other basic dimensions to create the full profile:

* Age
* w/wo children
* w/wo pets
* City center/suburb preference

The list of dimensions might increase with the time in order to refine the profile by using ML algorithms.

One of the technique which will be used is KMeans to group neighborhoods with similar venues.