**Geospatial Analysis with Social & Web data**

# Basic Idea

The aim for this project will be to answer the following questions:

* Why is the person here on this specific land?
* Where does this person like to go?
* What is the Land he is on used for?

These questions can be answered by figuring out

* **Land Use (Locations & Places)**
  + Zones
  + Categorized Areas
    - Urban, vacant, natural, ...
    - Tourism, Educational, Entertainment, ...
* **Population Interests (Social & Web Data)**
  + Ranking of areas of interest for each area population
  + Ex: People of area A like to go to Location B

Model

# Requirements

* **User Interface**
  + Easy to use user interface
  + Maps
  + Location Markers
  + Display Map/Locations Information
* **Data**
  + Social media data
  + Web data
  + Analysis of data
  + Categorization of data
  + Machine learning for clustering and classification
* **Development**
  + Dashboard with different statistical data and information
  + Data Extraction scripts
  + Web Application

# Possible Tools

* **Normal Web App**
  + Angular web framework for user interface
  + Some maps libraries such as leaflit.js
  + Python Django for server backend
  + NoSQL databases such as MongoDB and Postgress
* **ArcGIS & ArcGIS Online Web App**
  + Web App Builder
  + Geodatabase
  + Python Scripts
* **Data Extraction App**
  + Scrapping libraries for data extraction like (selenium. …)

# Similar Aspect Applications

* **Google Maps**
* **Google Places**
* **Esri Blog Post**