Aim

Analyse Mexico bike-share system usage and the importance of its relationship with BRT, metro stations and other relevant factors to consider into system expansion

Objectives

* Identify bike-share system trends and statistics
* Analyse the relevance of surrounding transport networks and cycle facilities in the system usage
* Analyse socioeconomic data as population density, job density, services and commercial activity
* Identify any other relevant factor

Datasets required

|  |  |  |
| --- | --- | --- |
| Dataset | Available | Comment |
| Location on bike shared bocks | Yes |  |
| Historical usage data of bike shared system | Yes | Huge amount of data |
| Location of BRT and metro stations | Yes |  |
| Cycle facilities | Yes | Low certainty of updated or accurate data |
| Socio economic factors | To check |  |

Methodology

1. Describe study area and bicycle shared program
2. Use descriptive statistics of data to identify and analyse trends
3. Identify relevant variables
4. Create a linear model

Relevant literature

El-Assi, Wafic et al. 2015. Effects of built environment and weather on bike sharing demand: a station level analysis of commercial bike sharing in Toronto

Zhang, Ying et al. 2016. Expanding Bicycle-Sharing Systems: Lessons Learnt from an Analysis of Usage

Faghih-Imani, Ahmadreza et al. 2014. How land-use and urban form impact bicycle flows: evidence from the bicycle-sharing system (BIXI) in Montreal

Krykewycz, Gregory et al. 2010. Defining a Primary Market and Estimating Demand for Major Bicycle-Sharing Program in Philadelphia, Pennsylvania

Mattson, Jeremy et al. 2017. Bike share in Fargo, North Dakota: Keys to success and factors affecting ridership

Rixey, Alexander. 2013. Station-Level Forecasting of Bikesharing Ridership