



# Finding suitable district for substitute inner district of Bangkok



## Introduction

- In Thailand, the land price of inner district of Bangkok is high
- The area has been unaffordable to many people
- There might be area that can substitute these areas



# Problem

- Determine the suitability of each district using
  - The similarity of each district
  - Distance to inner district
- The inner district of Bangkok are
  - Phatum wan
  - Bang Rak
  - Sathorn
  - Watthana



# Source of data

- The Name of districts of Bangkok
  - Source: Wikipedia
- Geocoordinate (Ex. Latitude, Longitude) of each district
  - Source: HERE MAP
- Distance from each district to each other
  - Source: HERE MAP
- Data of places in each district to determine similarity
  - Source: FOURSQUARE



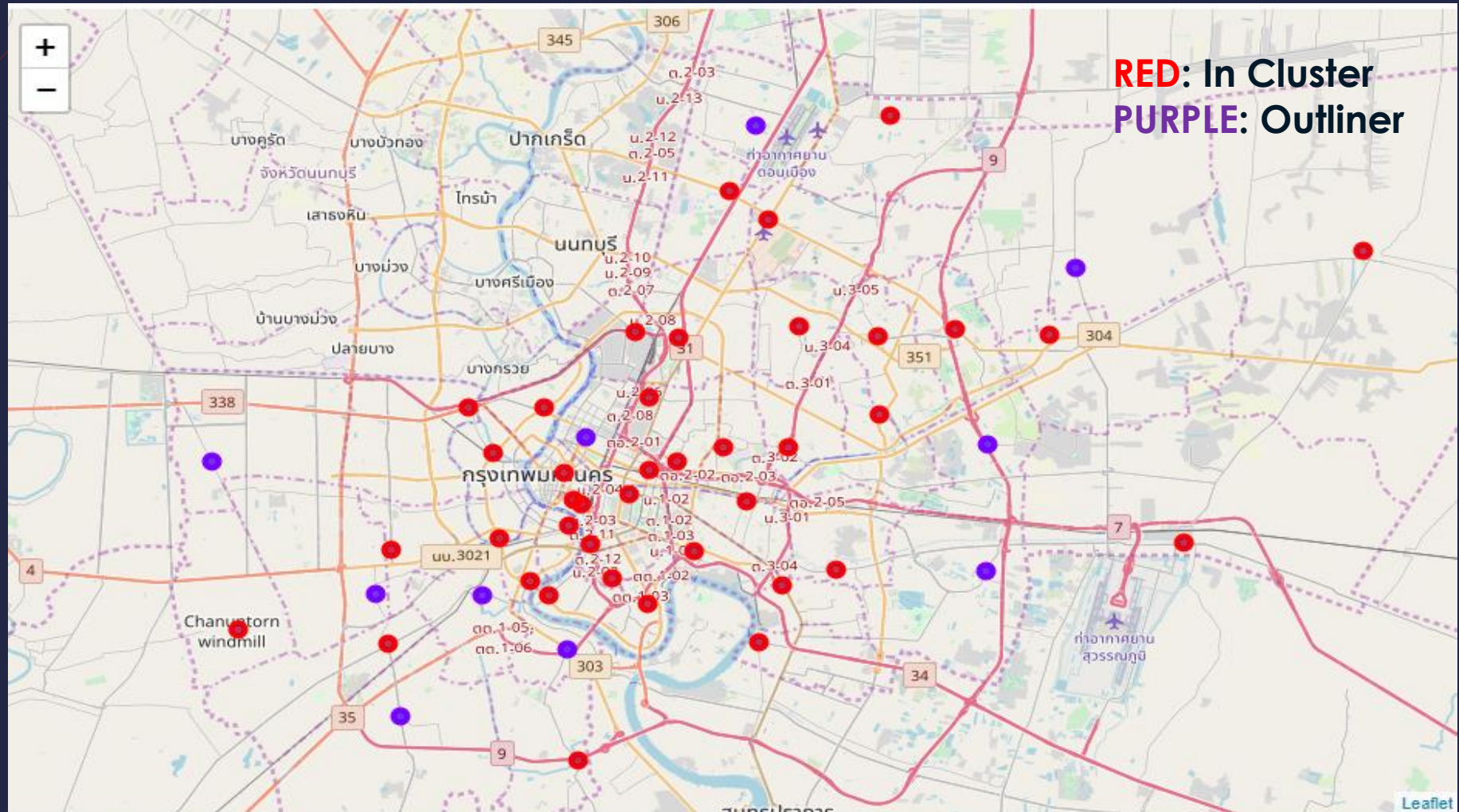
# Methodology

- The similarity will be determined by
  - Number of places in district group by category.
- The method for analyzing similarity
  - (DBSCAN) Density-based spatial clustering of applications with noise

# Result

- There is only 1 Cluster of similarity
- There are 40 districts that similar to each other includes inner district
- The top 5 suitable districts are
  - 1. Khlong Toei
  - 2. Pom Prap Sattru Phai
  - 3. Ratchathewi
  - 4. Yan Nawa
  - 5. Samphanthawong

# Map of districts





# Discussion

- This finding based on each category is important
- The similarity might depend on few important category more than others