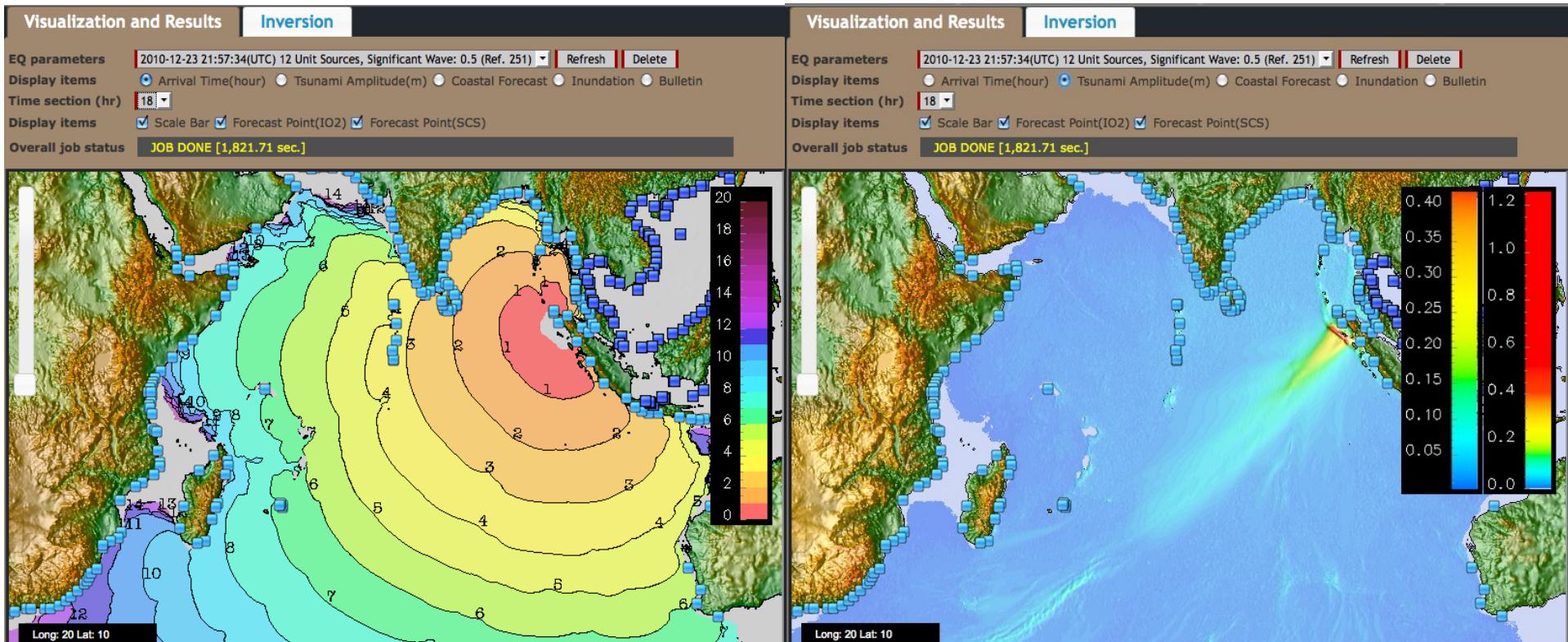


# Examples

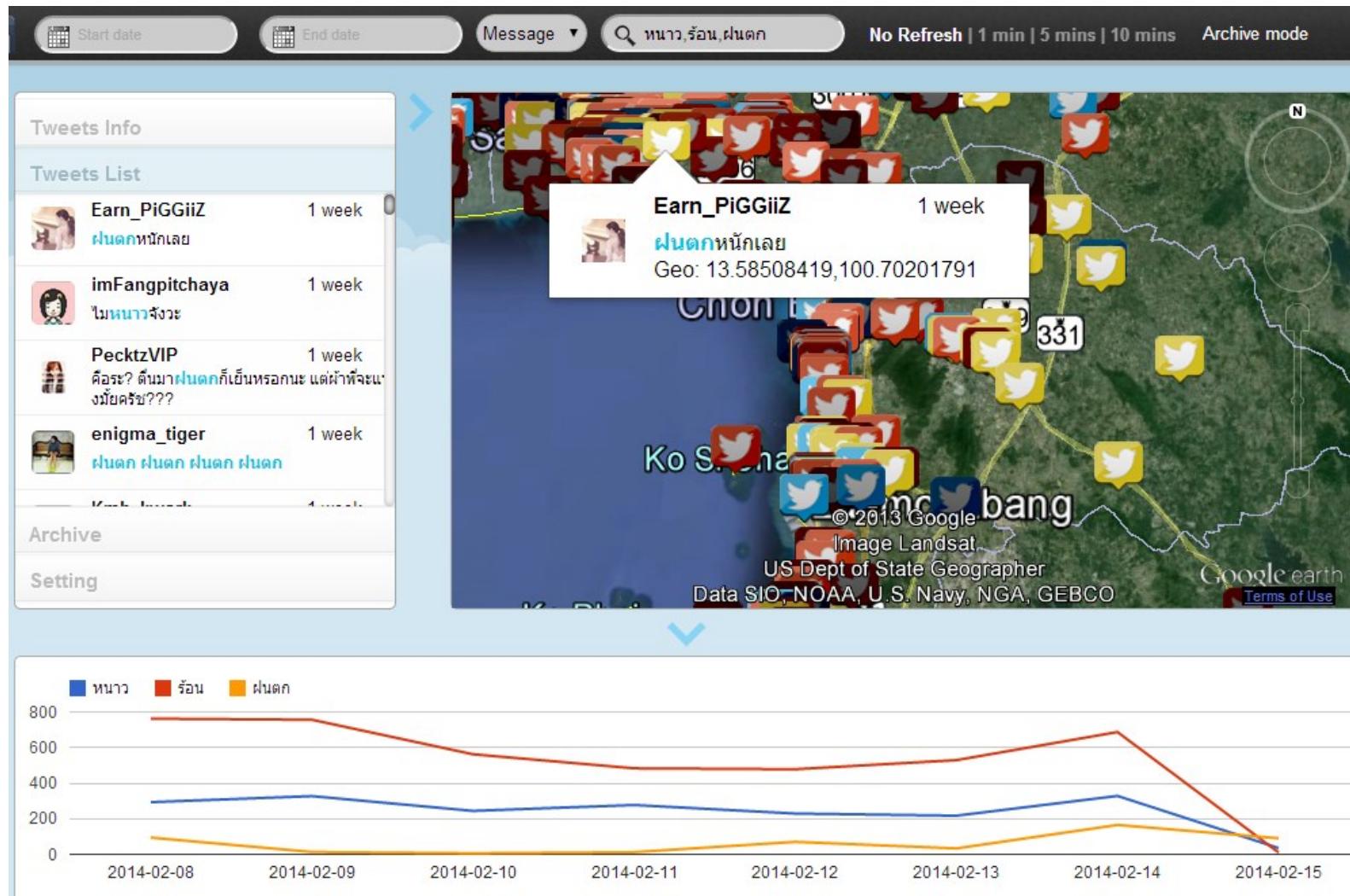
# Tsunami Arrival Time & Wave Height

- Raster data is generated from wave simulation.



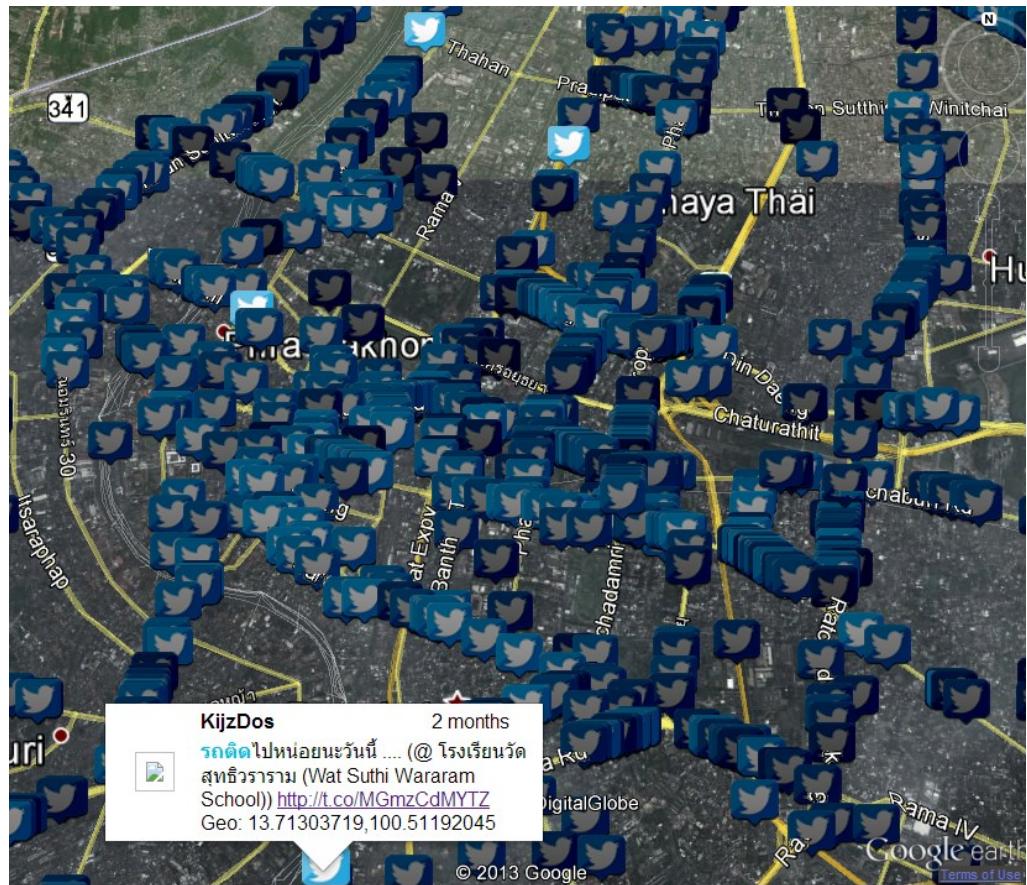
# Twitter Map

- Some tweets contain location data.

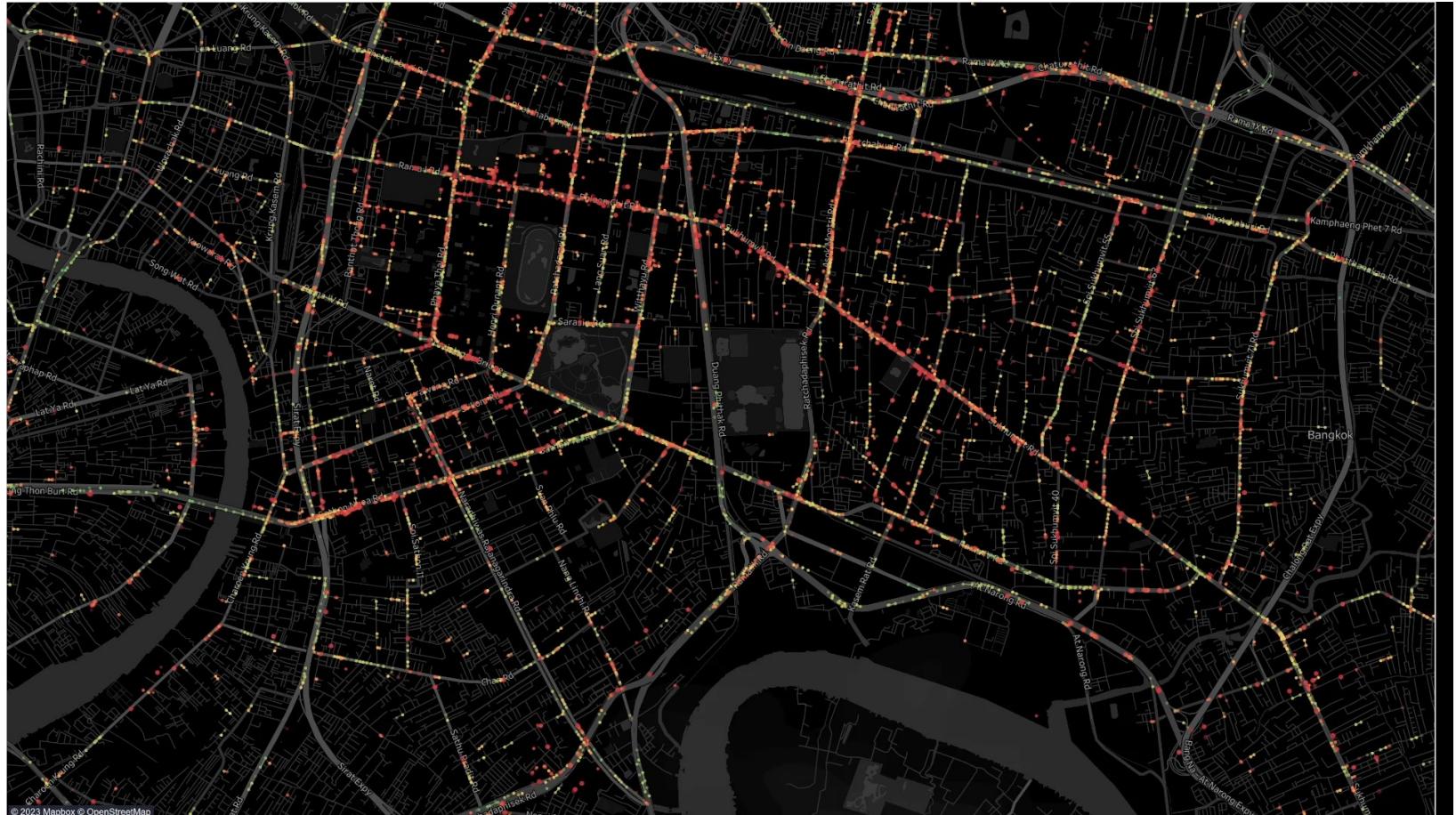


# Traffic Data Analysis from Twitter

- GPS + Social Network



# Taxi GPS Data



# Density map of taxis over time

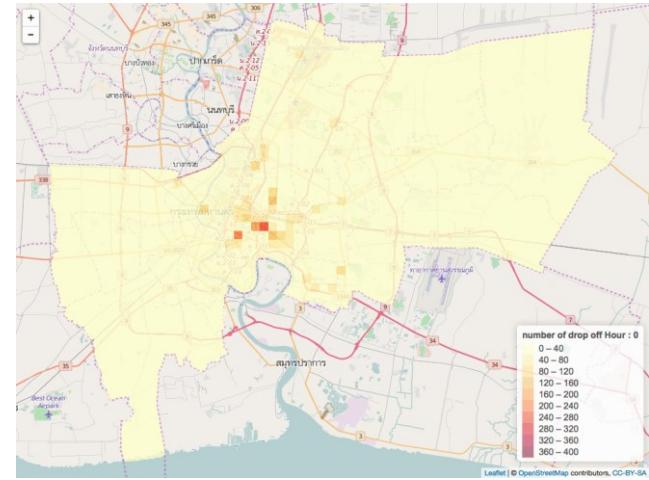
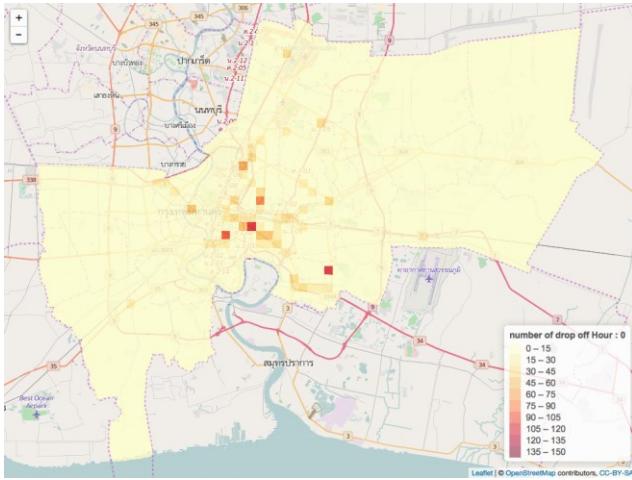


# Traffic Analysis using Taxi GPS Traces

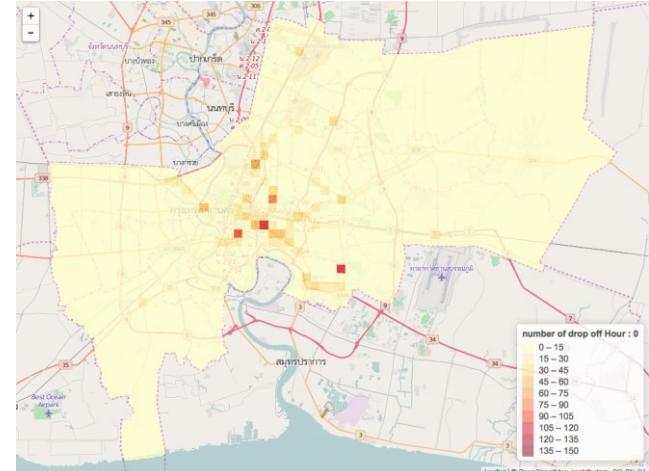
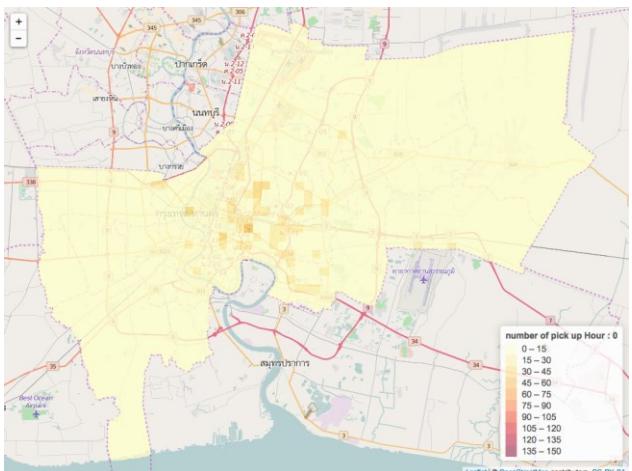


# Taxi Heatmap

Weekdays



Weekends



Pick-up

Drop-off

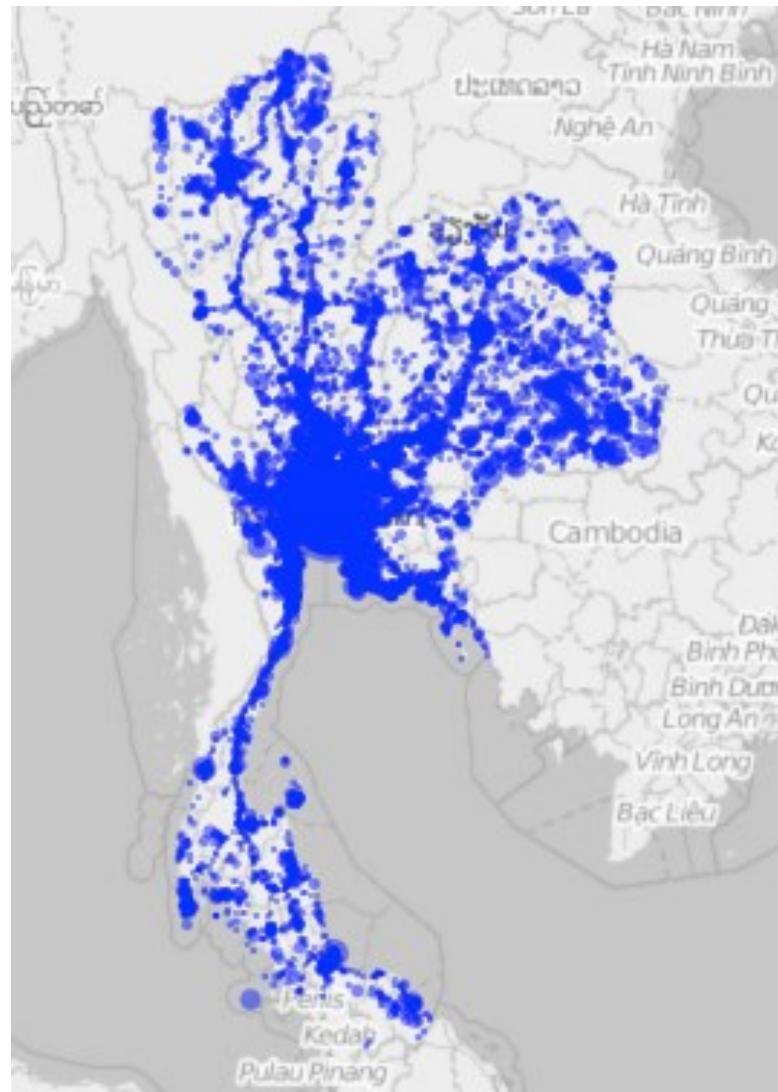
# Route Analysis



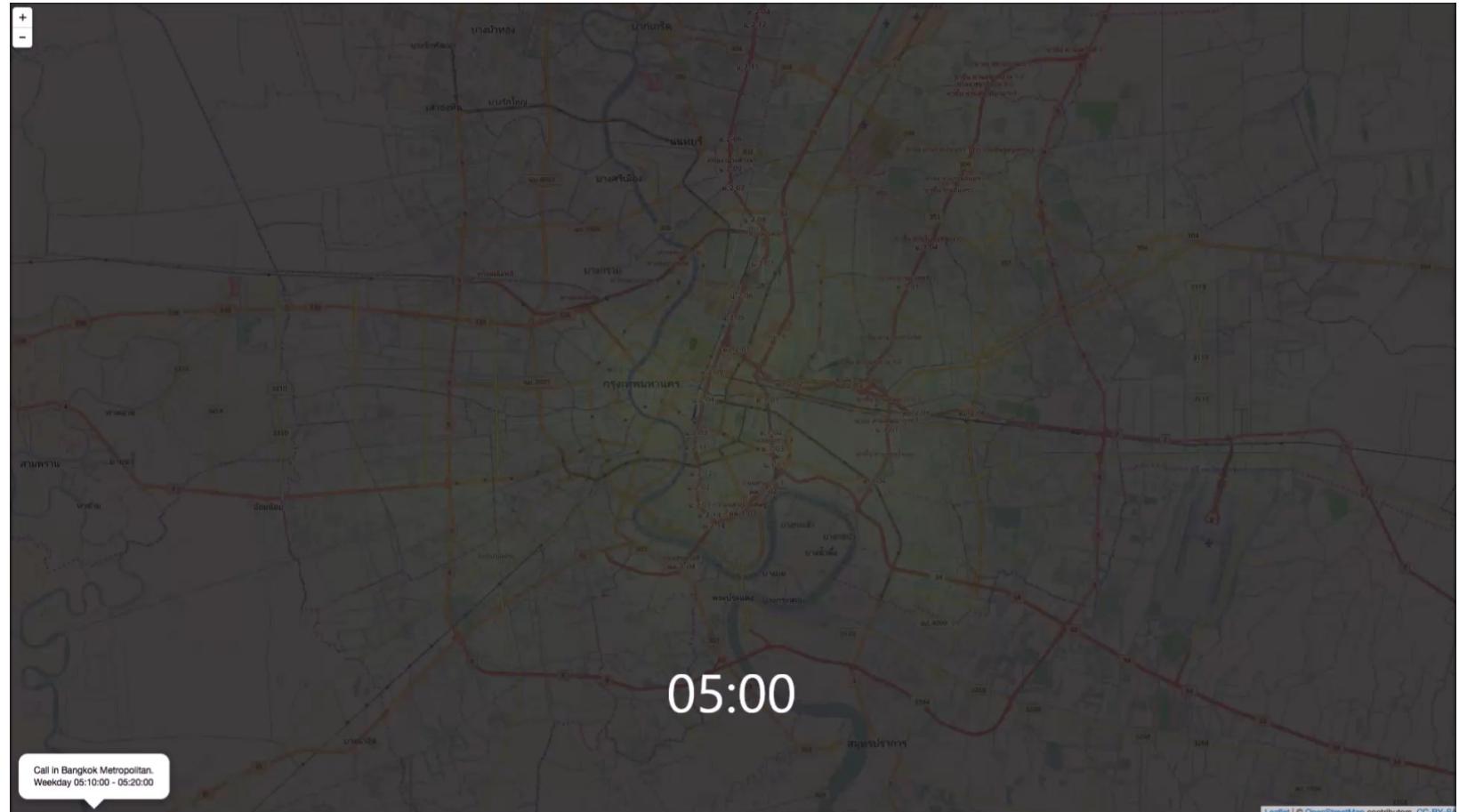
# Route Analysis



# Mobile Cell Tower Usage



# Density map of mobile phone usage over time

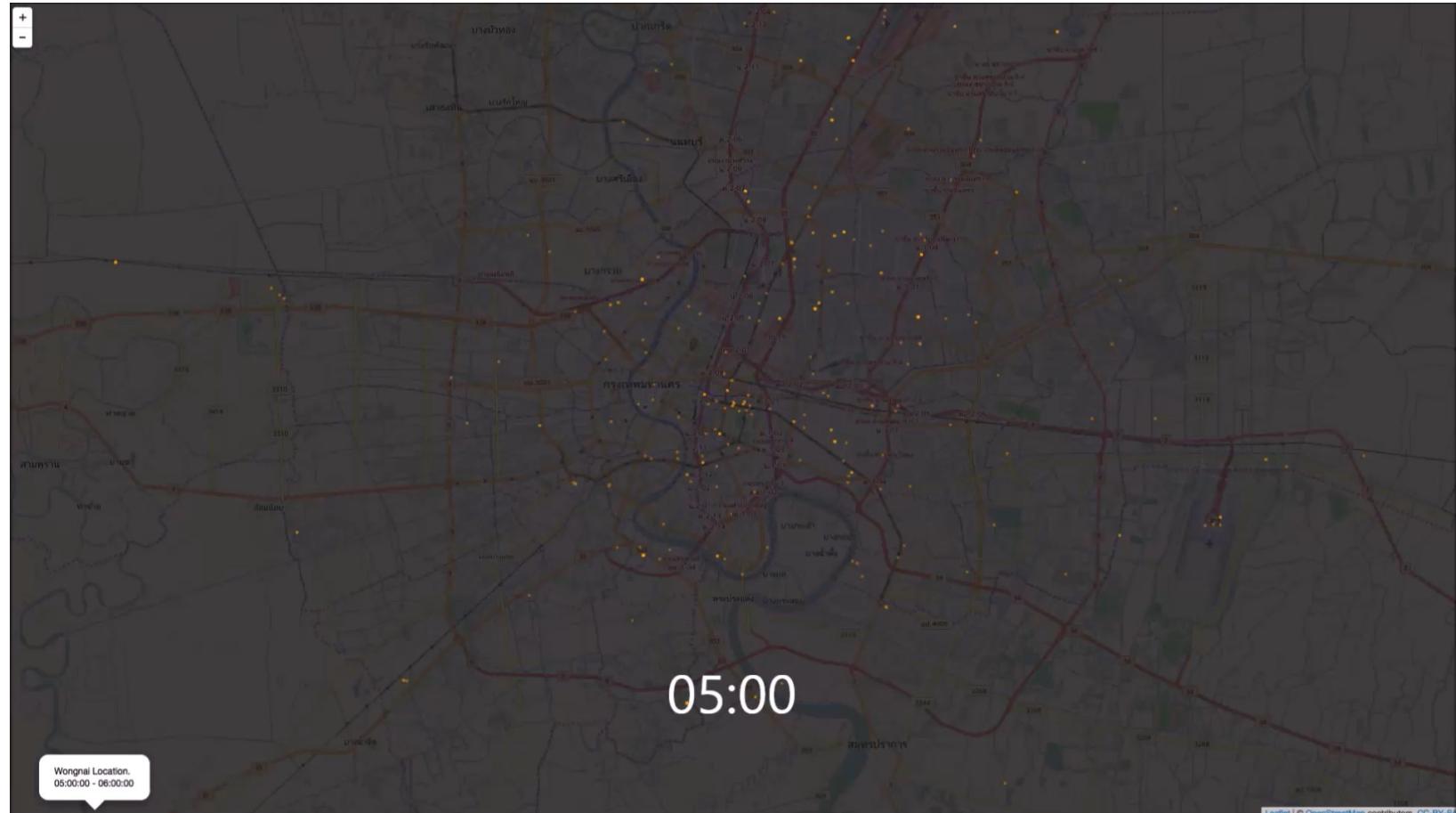


# Mobile Cell Tower Usage around CU, Monday vs. Sunday 1-2 pm

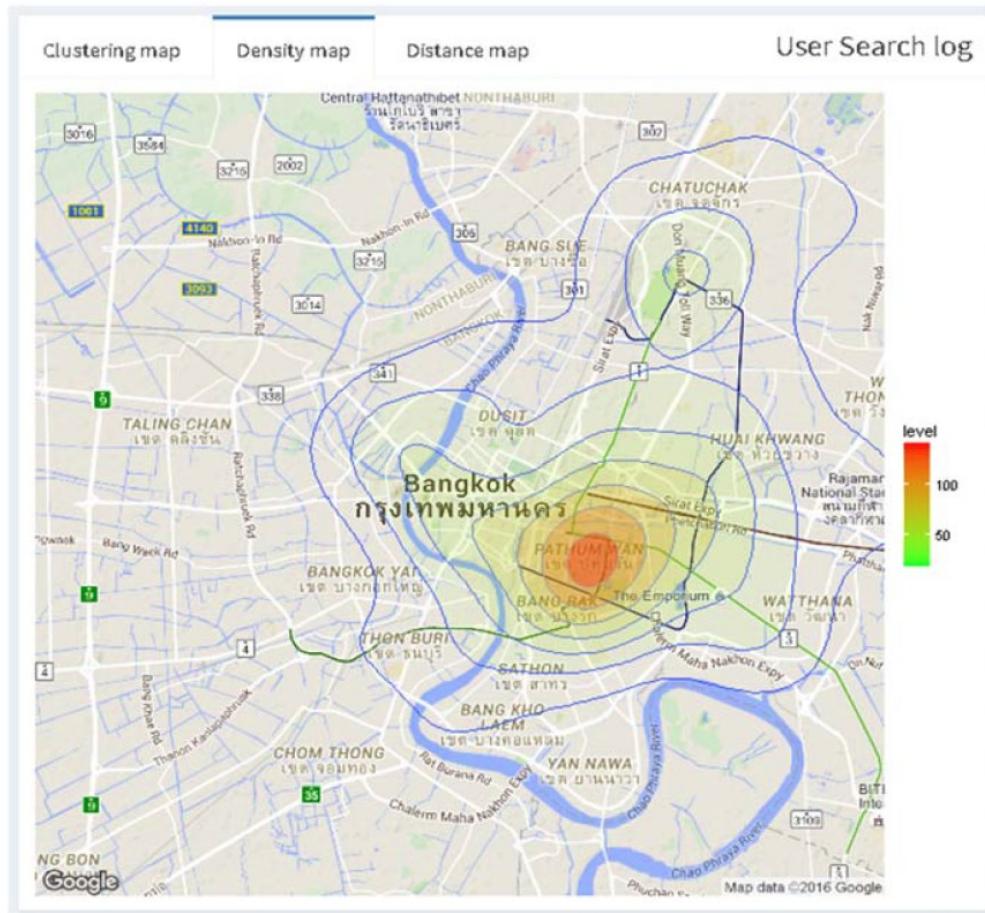


# Density of Wongnai Apps Usage

# Density of Wongnai usage over time

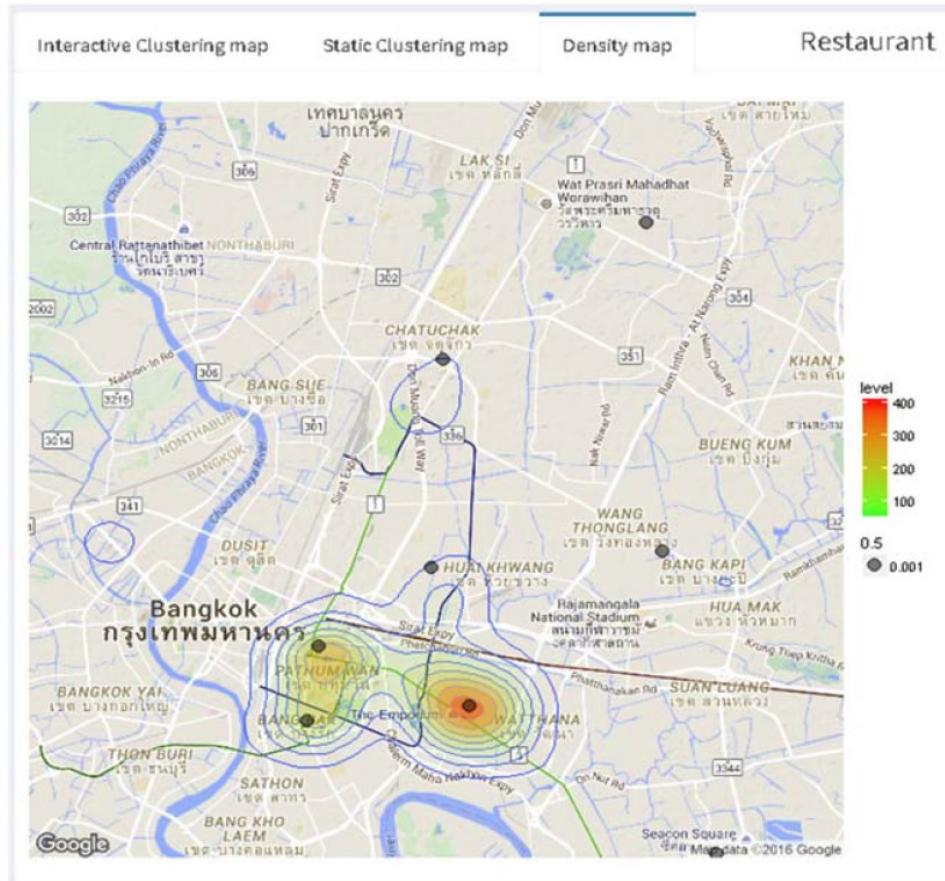


# Density Map of Wongnai Users

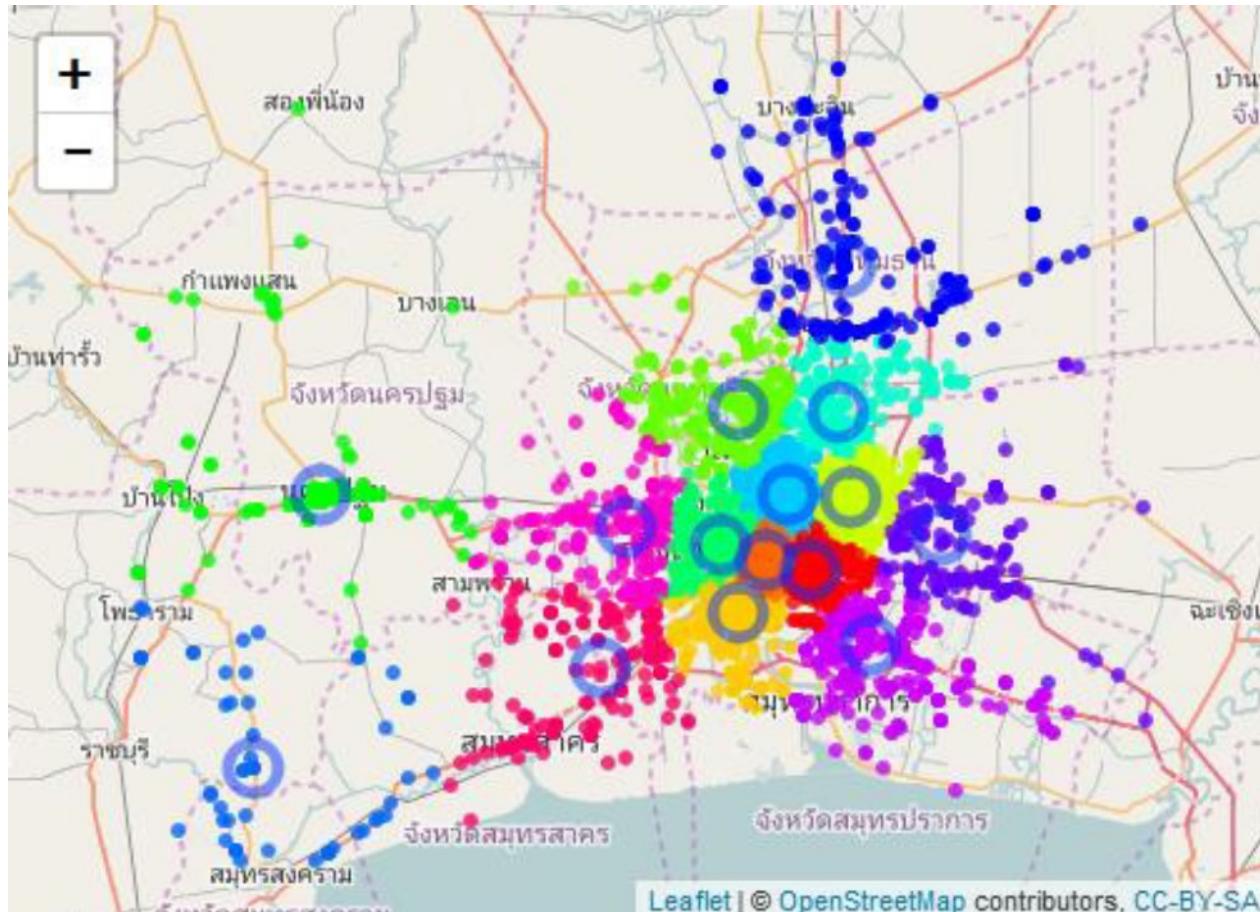


ภาพที่ 36 แสดงผลการวิเคราะห์ข้อมูลความหนาแน่นของข้อมูลผู้ใช้งานแอปพลิเคชั่นใน

# Density Map of Japanese Restaurants



# Clustering



# Where do hungry people go?

# Spatial Analysis & Viz Tools

- GIS software
  - QGIS
  - ESRI ArcGIS
- Business Intelligence
  - PowerBI
  - Tableau
- Python Libraries
  - Geopandas
  - Folium
  - Plotly
  - PyDeck