Project Management Plan 2

Course: Crime Mapping

Project Title: Ensuring Safety After Dark in Little Saigon: Identifying Areas of Concern

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1. Project Overview

This project focuses on identifying areas in Little Saigon that experience higher crime activity during nighttime hours. The goal is to conduct a crime density and hot spot analysis to understand spatial and temporal patterns of crime. The project will help generate data-driven recommendations to improve safety in public spaces such as restaurants, bars, parking lots, and transit stops.

Key objectives:

- Map and analyze nighttime crime occurrences.
- Compare weekday vs. weekend evening activity.
- Identify and visualize crime hotspots.
- Analyze temporal patterns (weekends, holidays, seasons) of crime incidents.
- Provide recommendations to enhance safety (e.g., lighting, patrols, community coordination).

2. Research & Methods

Little Saigon, a vibrant neighborhood in Seattle, is known for its rich cultural heritage and bustling commercial life. However, like many urban areas, it faces challenges related to crime, particularly during nighttime hours. Understanding the spatial and temporal patterns of these crimes is crucial for improving public safety.

This section outlines the research framework and methodology our group uses to identify and analyze nighttime crime hotspots in Little Saigon, drawing from established criminological research in Seattle.

Research Background

- City of Seattle. (2014). Little Saigon Landmark Project: Feasibility Study.

- City of Seattle. (2020). Little Saigon Action Plan. Office of Planning & Community Development.

- Friends of Little Sài Gòn. (2025). Phố Đẹp (Beautiful Neighborhood) Safety Plan.

- Seattle Times. (2024). Seattle's Little Saigon, beset by crime, looks for a way forward.
- Weisburd, D., Groff, E., & Yang, S.-M. (2012). The Criminology of Place: Street Segments and Our Understanding of the Crime Problem. Oxford University Press.
- Weisburd, D., Bushway, S., Lum, C., & Yang, S.-M. (2004). Trajectories of Crime at Places: A Longitudinal Study of Street Segments in the City of Seattle. National Institute of Justice.
- Ratcliffe, J. H. (2010). Crime Mapping: Spatial and Temporal Challenges. In Handbook of Quantitative Criminology.
- Chainey, S., & Ratcliffe, J. (2005). GIS and Crime Mapping. Wiley.
- [Phố Đẹp (Beautiful Neighborhood) – Friends of Little Saigon](#)

Method Steps

1. Data Collection
2. Data Cleaning and Preparation
- Seeing if the data is correct and seeing if the column names and formats are good
- looking at if there's any mistakes in the records
- looking at the categorized crime types
3. Hotspot Anaylsis
- apply spatial analysis
- find persistent hotspots from 2020-2024
4. Temporary analysis
- Examine when crimes occur most frequently (weekends, holidays, seasonal patterns)

Expected Outcomes

- Visual hotspot map
- Identification of high-risk zones and pattern over time
- Recommendations for community safety improvements

Data Collection

https://www.seattle.gov/police/information-and-data/data/crime-dashboard

https://data.seattle.gov/Transportation/Fremont-Bridge-Bicycle-Counter/65db-xm6k/about_data

 https://data-seattlecitygis.opendata.arcgis.com/ geographic data

https://kingcounty.gov/en/dept/kcit/data-information-services/gis-center/data-hub

https://www.arcgis.com/home/item.html?id=f91318f1cc43489fb0e7aca2fde22899 seattle street segment data

and since we are doing night time https://www.timeanddate.com/ time data if it might be helpful for analysis

businesses data
https://data.seattle.gov/dataset/Streetlight-Repair-Status/ryje-ciqm/about_data street light inventory data

https://drive.google.com/file/d/1Gx9FPKD6qC8E8cNtv9-e1ES0tjSrdmbO/view

https://data.seattle.gov/Public-Safety/SPD-Crime-Data-2008-Present/tazs-3rd5/about_data

[https://data.seattle.gov/City-Administration/Active-Business-License-Tax-Certificate/wnbq-64tb/abou…](https://data.seattle.gov/City-Administration/Active-Business-License-Tax-Certificate/wnbq-64tb/abou)

Active Business License Tax Certificate | City of Seattle Open Data portal

Business

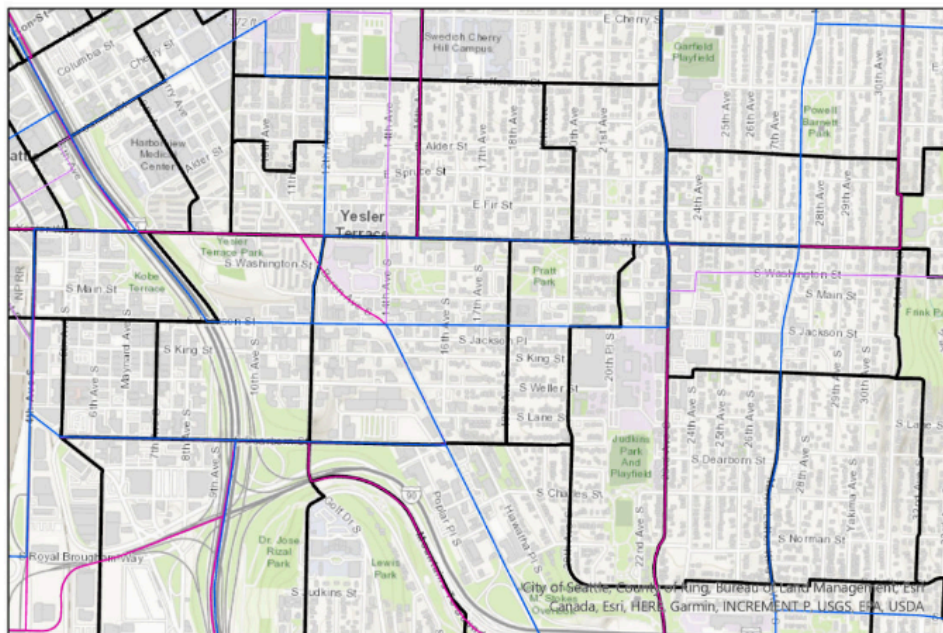[https://gis-kingcounty.opendata.arcgis.com/datasets/kingcounty::metro-neighborhoods-in-king-county-…](https://gis-kingcounty.opendata.arcgis.com/datasets/kingcounty::metro-neighborhoods-in-king-county-)

Metro Neighborhoods in King County / neighborhood area
The neighborhood coverage was generated for the ATIS application used by the Regional Automated Trip Planning group (RATP). This group assists Metro bus riders to get from one location to another t...
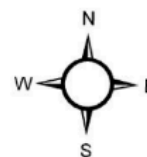
Metro Neighbour

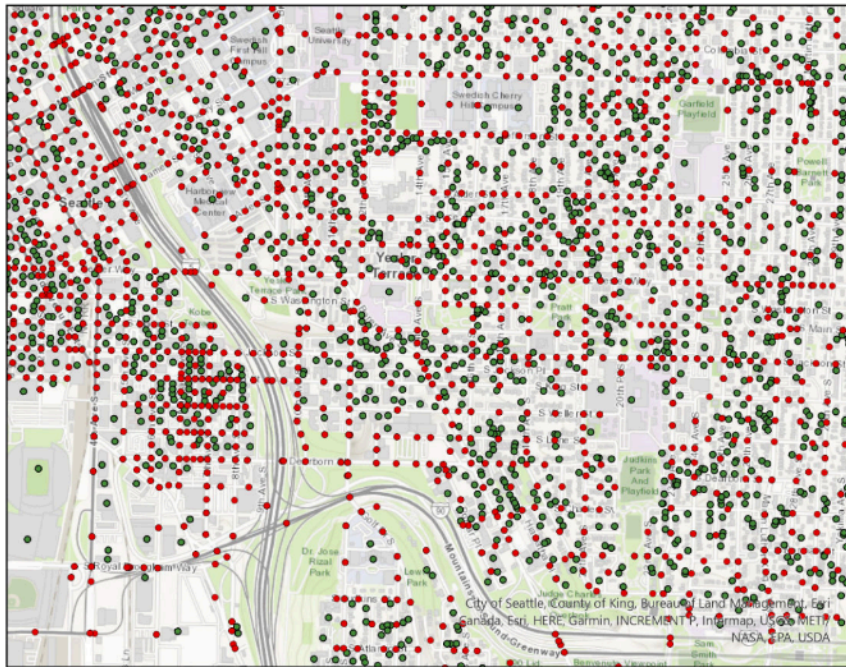# Spatial Distribution of 911 Incidents in Little Saigon, Seattle (2023–2025)

Legend

- ☐ Metro_Neigh
- ☐ MCPP_WM
- ☐ Beats_WM
- ☐ CensusBGGE

Made by Nikhil, Zanella, Jevitha

Spatial Distribution of 911 Incidents in Little Saigon, Seattle (2023–2025)

Legend

- CallData
- Business_Locatio