

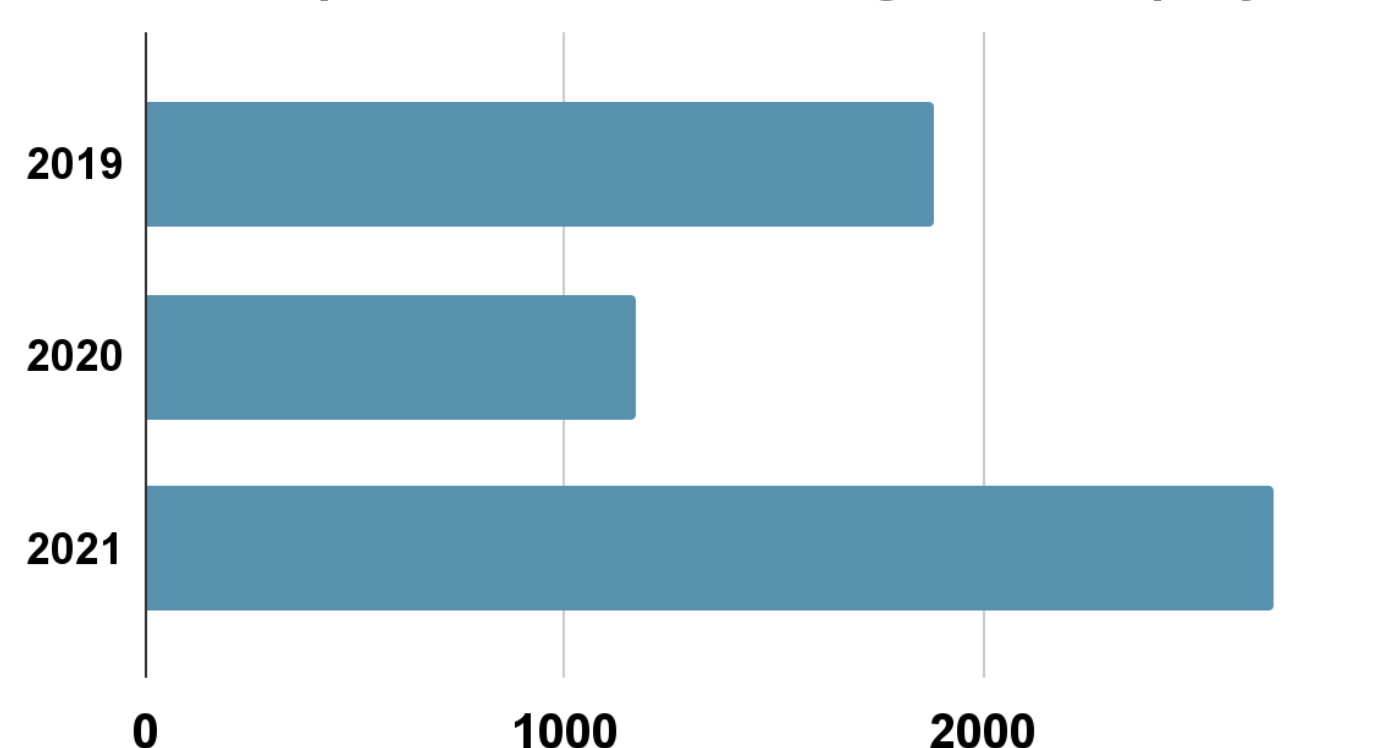
## RESEARCH QUESTION

Do SOB's, airports, highways, casinos, or demography geospatially correlate with higher rates of human trafficking incidents reported by law enforcement in the United States?

## BACKGROUND

- Numerical human trafficking data is often "guesstimates" because "accurate data on the extent of trafficking in human beings does not exist."<sup>3</sup> The goal of the Human Trafficking Data Warehouse at SMU is to create a resource for law enforcement and researchers to better estimate and combat human trafficking.
- Human trafficking: **the use of force, fraud, or coercion to obtain some type of labor or commercial sex act.**<sup>4</sup>
- Sexually oriented businesses (SOB's):** strip clubs, retail stores, and theaters providing adult content.
- Recent literature has suggested that there is geographic patterning to sex trafficking.<sup>2</sup>

NIBRS Reported Human Trafficking Incidents, per year



## METHODS

### BJS NIBRS Data (2019-2021)

- Incidents were matched by reporting agency to nearest municipality, then grouped by county.
- States where over 90% of the population is covered by actively reporting agencies were included in analysis.

### Yelp Application Programming Interface (API)

for cities >100,000 people in states identified in NIBRS data

- Search terms:
  - 'Adult entertainment' and 'City, State'
  - 'Casinos' and 'City, State'

### American Community Survey 5-Year

- Poverty level
- Population density

### Data cleaning

- Number of airports and highways also included
- n = 212 reporting agencies in 26 states**
- Attributed all data collected to counties
- Conducted:
  - Ordinary Least Squares (OLS) Regression Analysis
  - Pearson Correlation Matrix

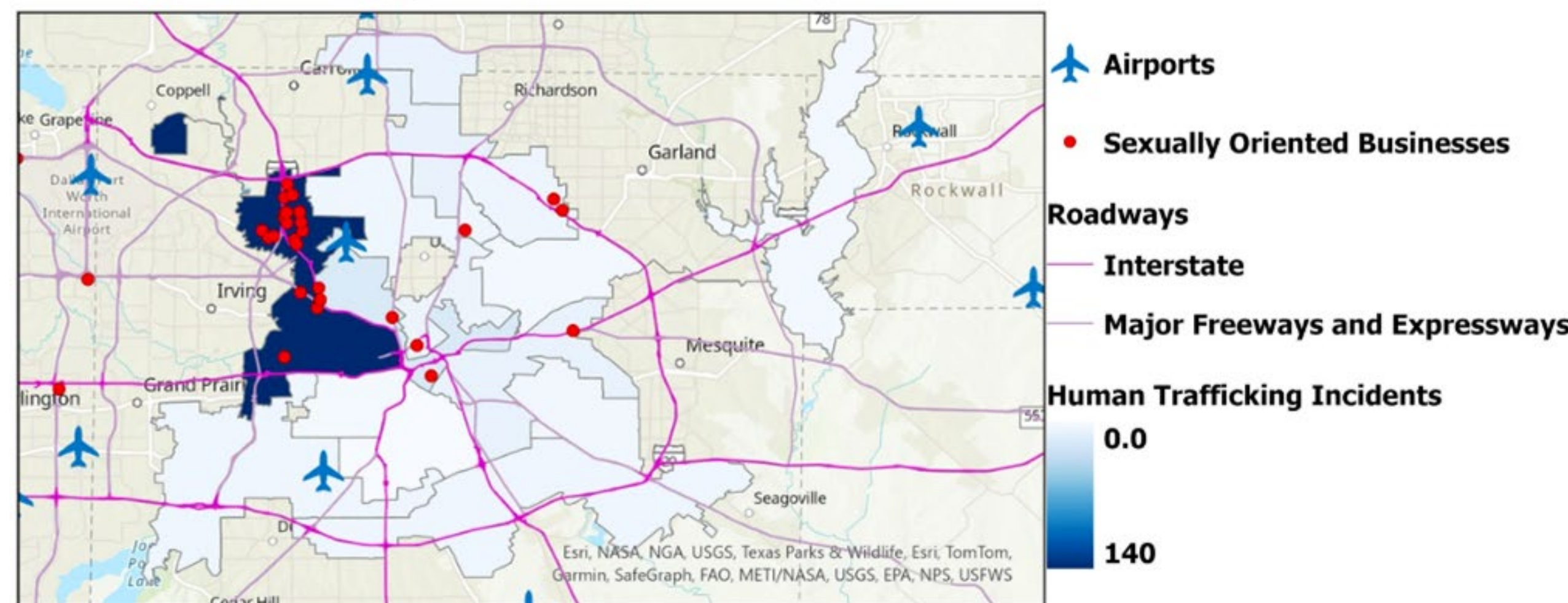
## RESULTS

- Correlation matrix and the regression analysis were statistically insignificant
- Loose positive Pearson correlation

Pearson Correlation Matrix

	Human Trafficking Incidents per capita
Population Density	- 0.085
Poverty Rate	0.047
<b>SOB per capita</b>	<b>0.108</b>
Airport Count	- 0.019
Highway Count	- 0.114
<b>Casinos per capita</b>	<b>0.145</b>

## City of Dallas



1 City of Dallas. (n.d.). *Human Trafficking Awareness*. Tableau Software. Retrieved October 14, 2024, from <https://dallascitydata.dallascityhall.com/views/HumanTraffickingAwareness/Overview?%3Aembed=y&%3AisGuestRedirectFromVizportal=y&%3Arefresh=yes>

2 de Vries, I. (2023). Examining the Geography of Illicit Massage Businesses Hosting Commercial Sex and Sex Trafficking in the United States: The Role of Census Tract and City-Level Factors. *Crime & Delinquency*, 69(11), 2218-2242. <https://doi.org/10.1177/00111287221090952>

3 Goodey, J. (2008). Human trafficking: Sketchy data and policy responses. *Criminology & Criminal Justice*, 8(4), 421-442. <https://doi.org/10.1177/1748895808096471>

4 Text - H.R.3244 - 106th Congress (1999-2000): Victims of Trafficking and Violence Protection Act of 2000. (2000, October 28). <https://www.congress.gov/bills/106/text/congress/house-bill/3244/text>

## CONCLUSIONS

- On limited but more geographically specific datasets (e.g. City of Dallas), correlations were higher**
- The lack of geographic specificity may have resulted in the weak correlations (agency level)
- Further research using more specificity (eg. highway on and off ramps) should be considered

## LIMITATIONS

- The locality of data on human trafficking** (reporting agency level) reduced the accuracy of the assessment of spatial relationships
- Used data from 2019-2021, so some crime reporting may be unreliable due to effects of the COVID-19 pandemic