BRIANA SHAWVER POLICE ANALYST, SLCPD ESRI USER CONFERENCE

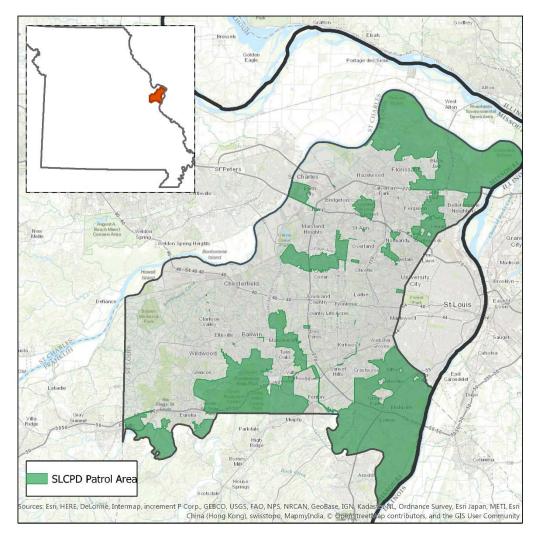
DETERMINING TRAFFIC ENFORCEMENT STRATIC

## ABOUT ME

- Analyst with SLCPD 2+ years
  - 3 analysts with specific geographic locations and specialized units
  - My areas: low crime, more specialized units and admin analysis
  - Highway Safety Unit: crash and DWI analysis regularly
  - Work for other municipalities and present data analysis regionally

# ST LOUIS COUNTY POLICE DEPARTMENT

 Largest department in county
 90 municipalities
 50 or so police departments
 patrol 400k of 1.1 million of population
 Nearly 900 sworn



#### PROBLEM

- Came from Highway Safety Unit
  Responsible for traffic safety in patrol areas but can also go outside of SLCPD patrol areas
- Needed to put an officer from 12pm to 10pm to patrol for crash prevention
- Would need to many maps that couldn't indicate time very well
  Creates patrol strategy to place officer at highest crash locations at certain times

# USING "CREATE SPACE TIME CUBE"

	Geoprocessing - 7	×
Geocoded/XY shapefile		<b>=</b> (
Field with date AND time	Input Features  Vite Cube	<b>1</b>
		±
	* The Field	What time interval do you want the
Can change what date/hour	Template Cube	cubes to represent?
you want to be "near ground"	Time Step Interval	
	Seconds	How big should
	Tirce Step Alignment End time	• the bins be?
	Distance Interval	
	Feet	•
	Summary Fields +	
What turns of grid?	Field	
What type of grid?	Statistic	
	Fill Empty Bins with	•
	Aggregation Shape Type	
	Fishnet grid	<b>▼</b>

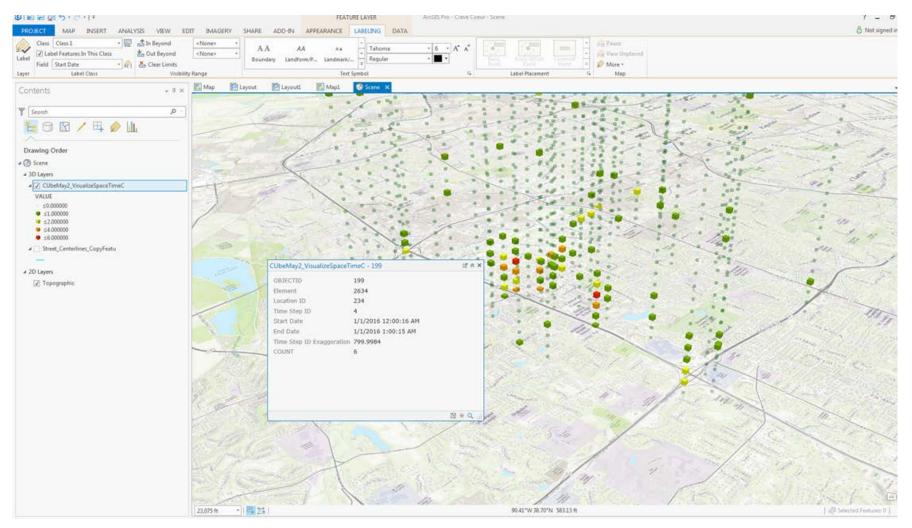
## VISUALIZE AND STYLE

- Could only do a count of bins  $\rightarrow$  no neighbors for analysis
- Use familiar coloration- green to red like stop light
- Using for strategy so not interested in where crashes aren't
- o -make "green" bins more transparent so its easier to read "red" bins



Animation with Exploration

### USE FOR DWI SATURATION PATROLS



#### QUESTIONS?