BRIANA SHAWVER POLICE ANALYST, SLCPD ESRI USER CONFERENCE

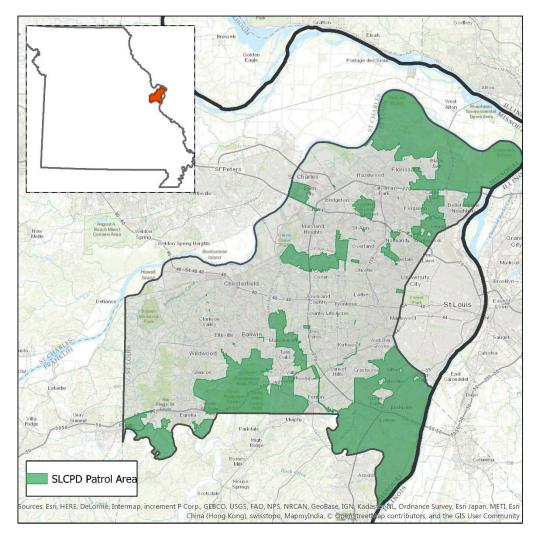
DETERMINING TRAFFIC ENFORCEMENT STRATIC

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		= (
Field with date AND time	Input Features Vite Cube	1
		±
	* 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	▼

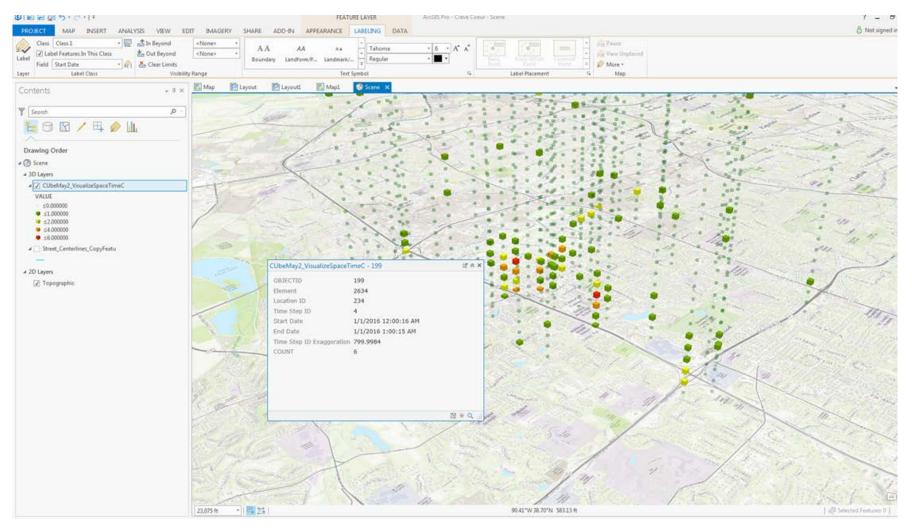
VISUALIZE AND STYLE

- 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?