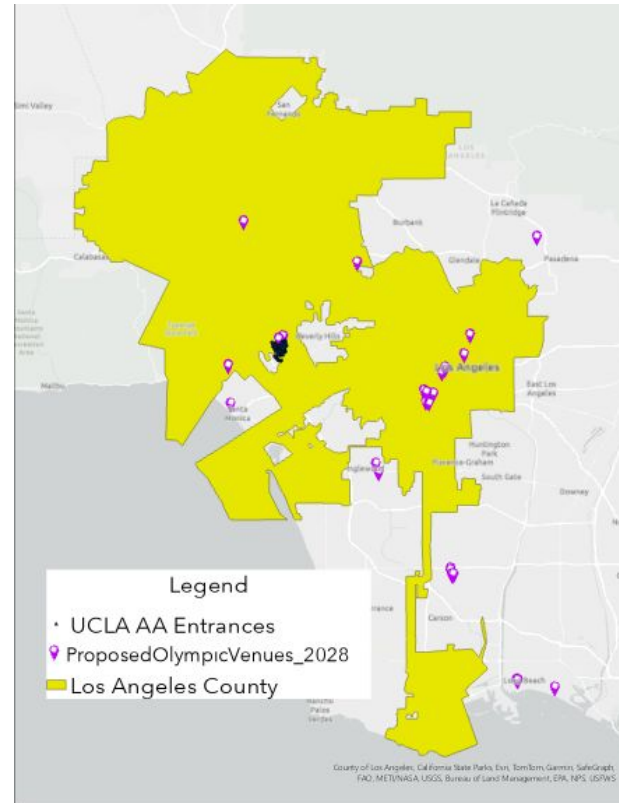
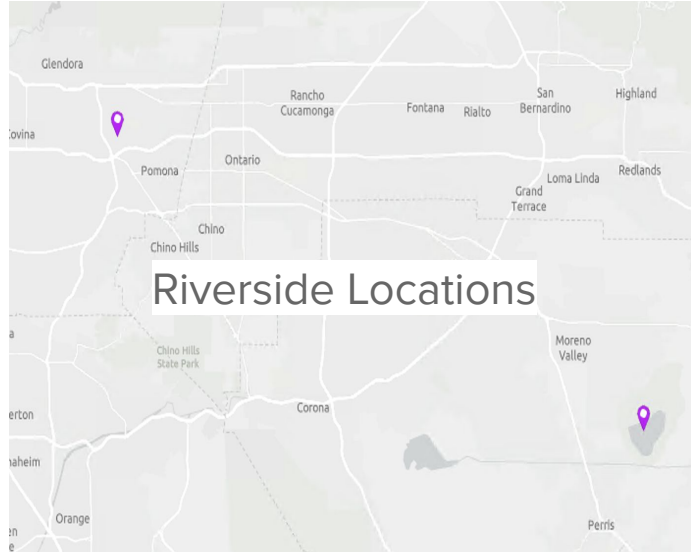




# Proposed LA28' Bus Line Findings

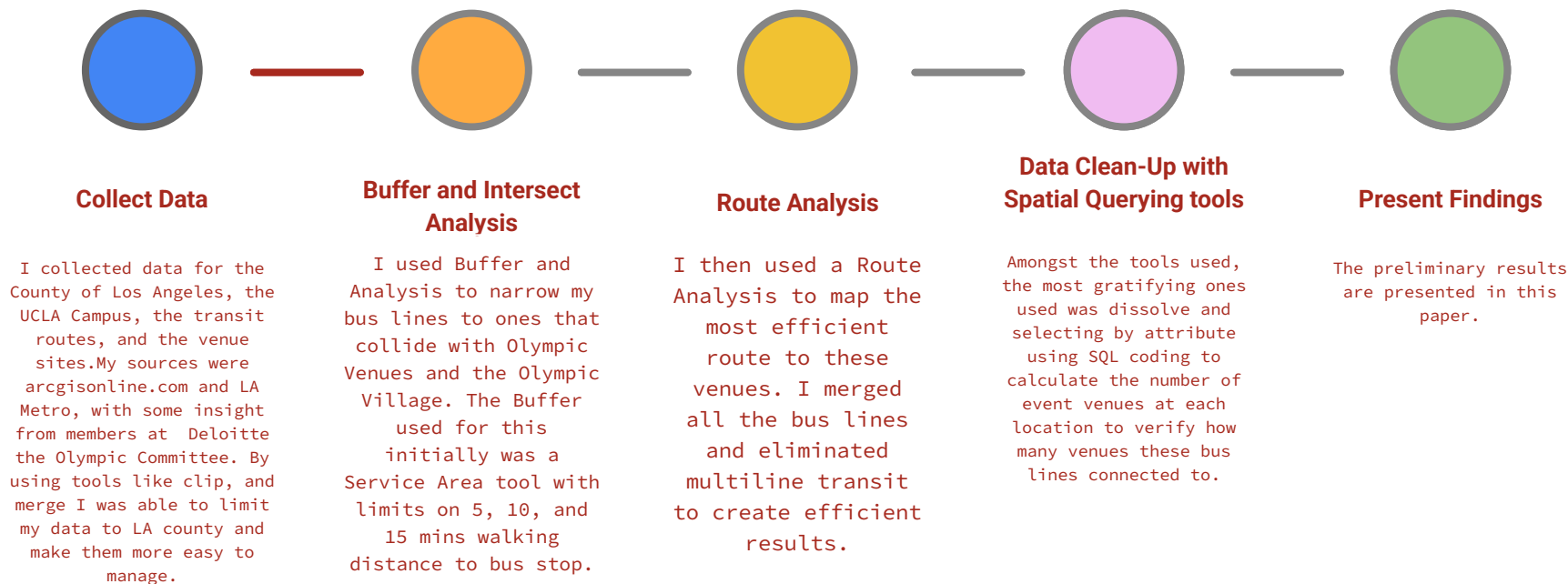
**"How can the Los Angeles 2028 Olympic transport plan maximize the number of open transit lines between the Olympic Village (UCLA) and Olympic venues while ensuring efficient and direct access for athletes and associates, while promoting sustainability and hazard mitigation?"**

# ArcGIS Geoprocessing Tools and Spatial Analysis

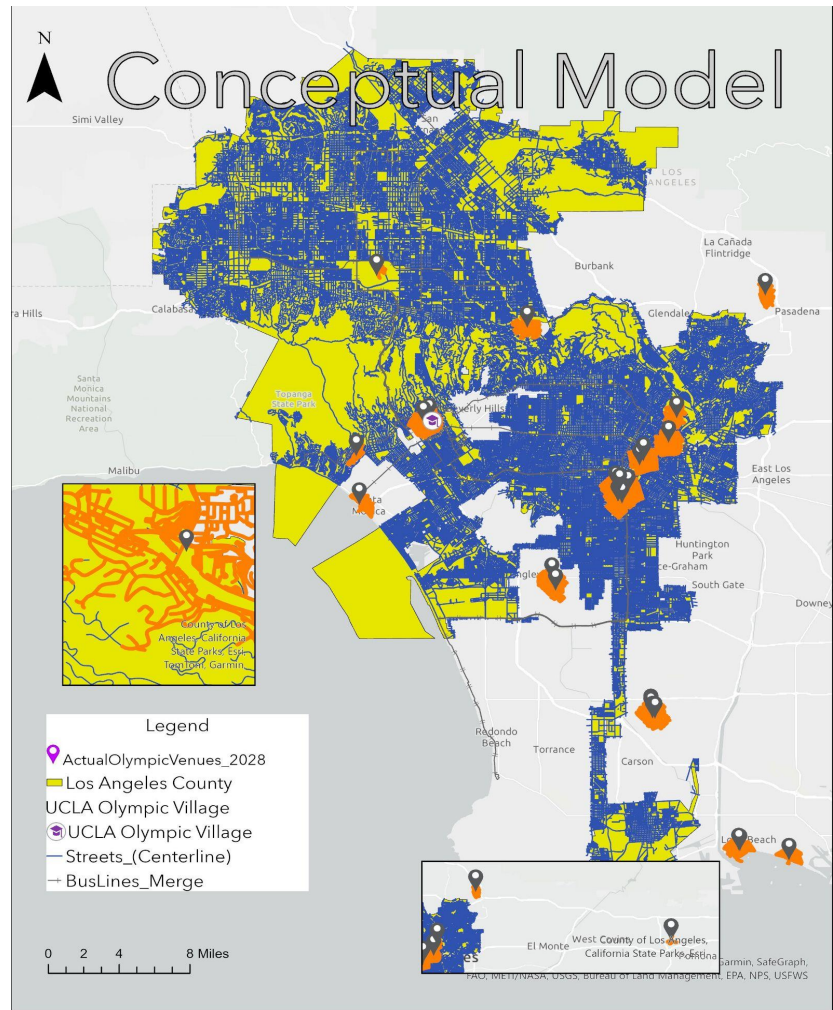


# ArcGIS Process

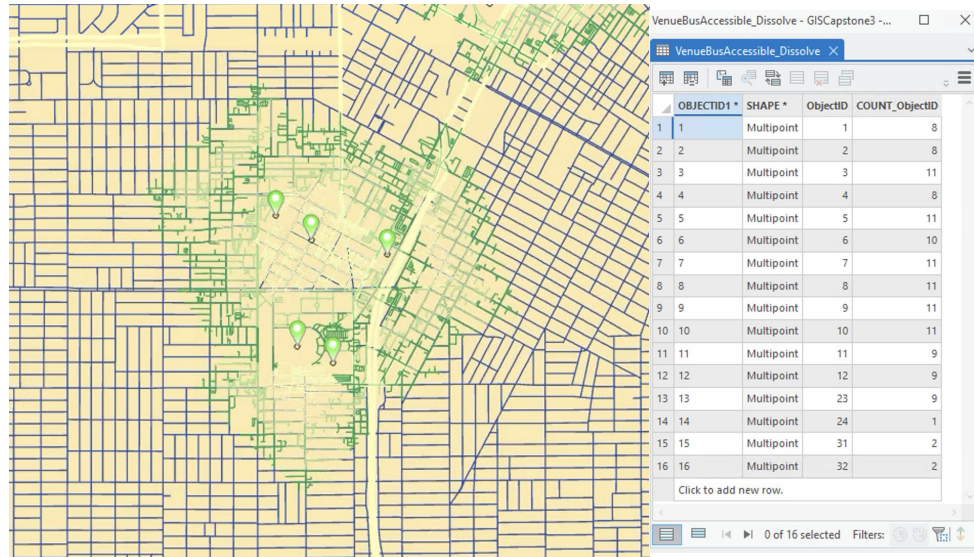
## Process Timeline



# Conceptual Model



# The Use of Dissolve on the Venues.

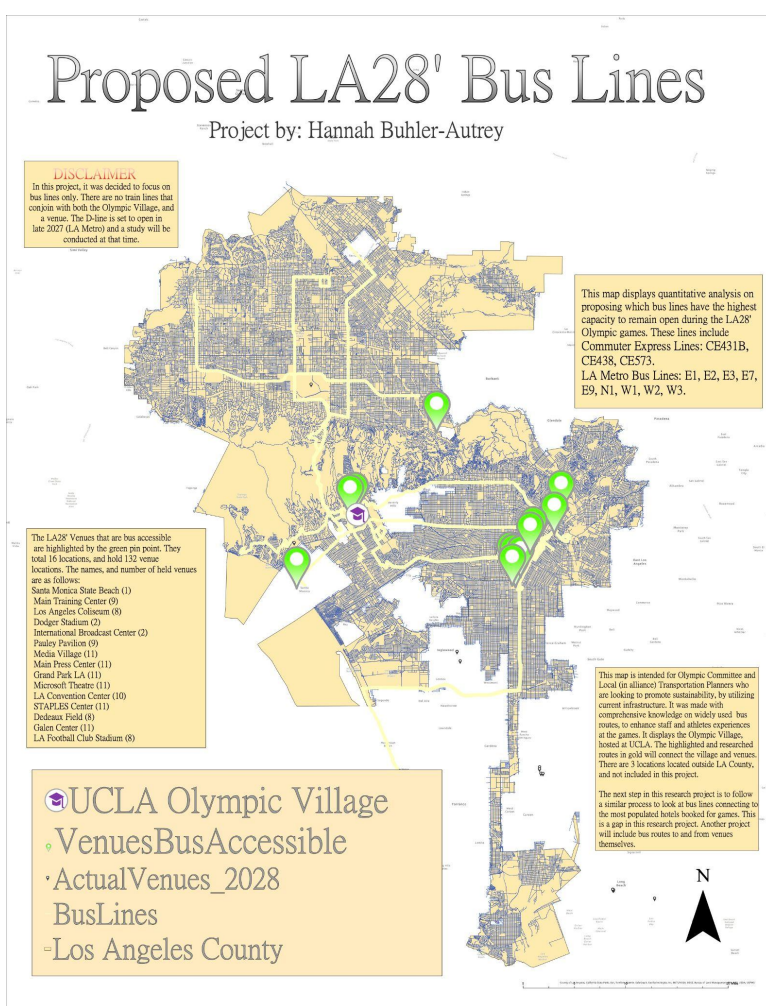


# Final

**Commuter Express  
Lines: CE431B,  
CE438, CE573.**

There are **9** LA  
Metro Bus Lines  
to be kept  
open, They are

**LA Metro Bus Lines:  
E1, E2, E3, E7, E9,  
N1, W1, W2, W3.**



# Map

# Problems

01

Not enough time

- Because the D-Line train is not yet open, I wasn't able to add trains to the map that met my criteria. In 2027 however though, it opens another research project.
- Because I limited my Research area to LA County only, there wasn't enough time to find "direct routes" to the venues outside of LA county.

02

Not enough correspondence between this project and Los Angeles County Government.

- If there was access to see how the Local Government is preparing for the Games, it could have changed some of my variables, specifically the largest one: the LA Street Map.

03

Lack of transit communication and risk in high capacity situations.

- If I had access to Local Transportation Planners I could modify the tools I use. Also, there is no assurance that LA Metro or Commuter Express will stay open for the games.
- The increase in tourism during this time frame might cause company property damage, and poses a risk for safety in the County.



# Obstacles (Continued)

Finding Data was **difficult at first**, but after a few weeks I found what sources gave me the best quality information. I gather everything from **ArcGIS pro, and LA Metro**. I also was able to get information to verify my proposed location map from the **Olympic Committee**.

I was then referred to a transportation manager/GIS team member at the **Olympic committee** who gave me useful insight on my project, and tips on next steps. This included a critique on the focus toward the Olympic Village for athlete and staff experience. I was **recommended to broaden my search around hotels in the area that also will be used for the same purpose**, but they were unable to provide specifics on hotel location data.

My final map also does **not include an appropriate legend**. I was not able to symbolize it properly, so the symbols on the legend are much smaller than they should be. The map layout creation was the most frustrating.

# Findings and Moving Forward

## Further Research

- How does the restructuring of public transit affect the populations health? (A mimic to the Atlanta 1996 Health Study can be recreated.”
- How useful will public transit be for Olympians and staff during the games?
- When venues can Olympians and Staff staying at hotels reach by bus in LA County?



## Works Cited

Hannah Buhler-Autrey. "Proposed LA28' Bus Lines" [Tabloid Layout], 1:97,136, "GISCapstoneJPEG", 11/18/2024

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Li, Y., Wang, W., Wang, J., Zhang, X., Lin, W., & Yang, Y. (2011). Impact of air pollution control measures and weather conditions on asthma during the 2008 Summer Olympic Games in Beijing. *International journal of biometeorology*, 55(4), 547–554. <https://doi.org/10.1007/s00484-010-0373-6>