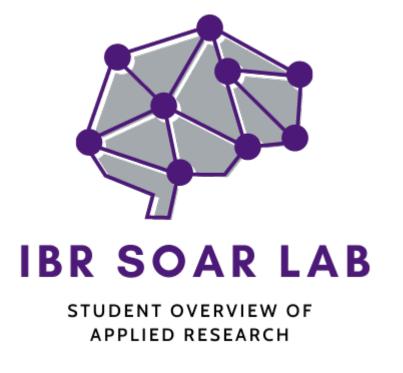


COLLEGE OF **SCIENCE & ENGINEERING INSTITUTE OF BEHAVIORAL RESEARCH** 



### Background

- Areas that do not have access to sufficient medical clinics and treatment services are labeled "service deserts."
- Across the US, opioid use disorder (OUD) treatment programs are highly concentrated in the Northeast and sparsely available throughout central and western regions of the country (Mitchell et al., 2022).
- Previous literature has cited travel time and access to transportation as barriers preventing individuals from seeking treatment at clinics treating OUD, HIV, and a variety of other needs (Hewell et al., 2017). Lack of access to public transportation for these individuals could lead to lower levels of treatment retention and usage of necessary medications.
- Tarrant County is a large county with a population of over 2 million individuals. In order to efficiently meet demand for transportation services, public transit routes are designed to be at maximum efficiency where population and employment opportunities are highly concentrated (Fort Worth TMP, 2019).
- Downtown areas of the county have public transit bus and train routes every 10 minutes while less concentrated communities, such as single family and mixed neighborhoods, have bus routes running every hour at minimum (Fort Worth TMP, 2019).
- The study aims to overlay maps of available mental health clinics, addiction and substance use clinics, and women's health clinics to address what regions of Tarrant County should be considered treatment deserts.

## Methods

- A list of substance use and addiction clinics, mental and behavioral health clinics, and women's health clinics was gathered from an internet search. Facilities in Tarrant County were included in the final data set.
- Clinics were imported on a map of Tarrant County using ArcGIS software. This geospatial mapping software allows the user to overlay multiple layers of information. In the current study, a map of the Tarrant County bus lines is overlaid with the clinics.

# **Clinic Demographics**

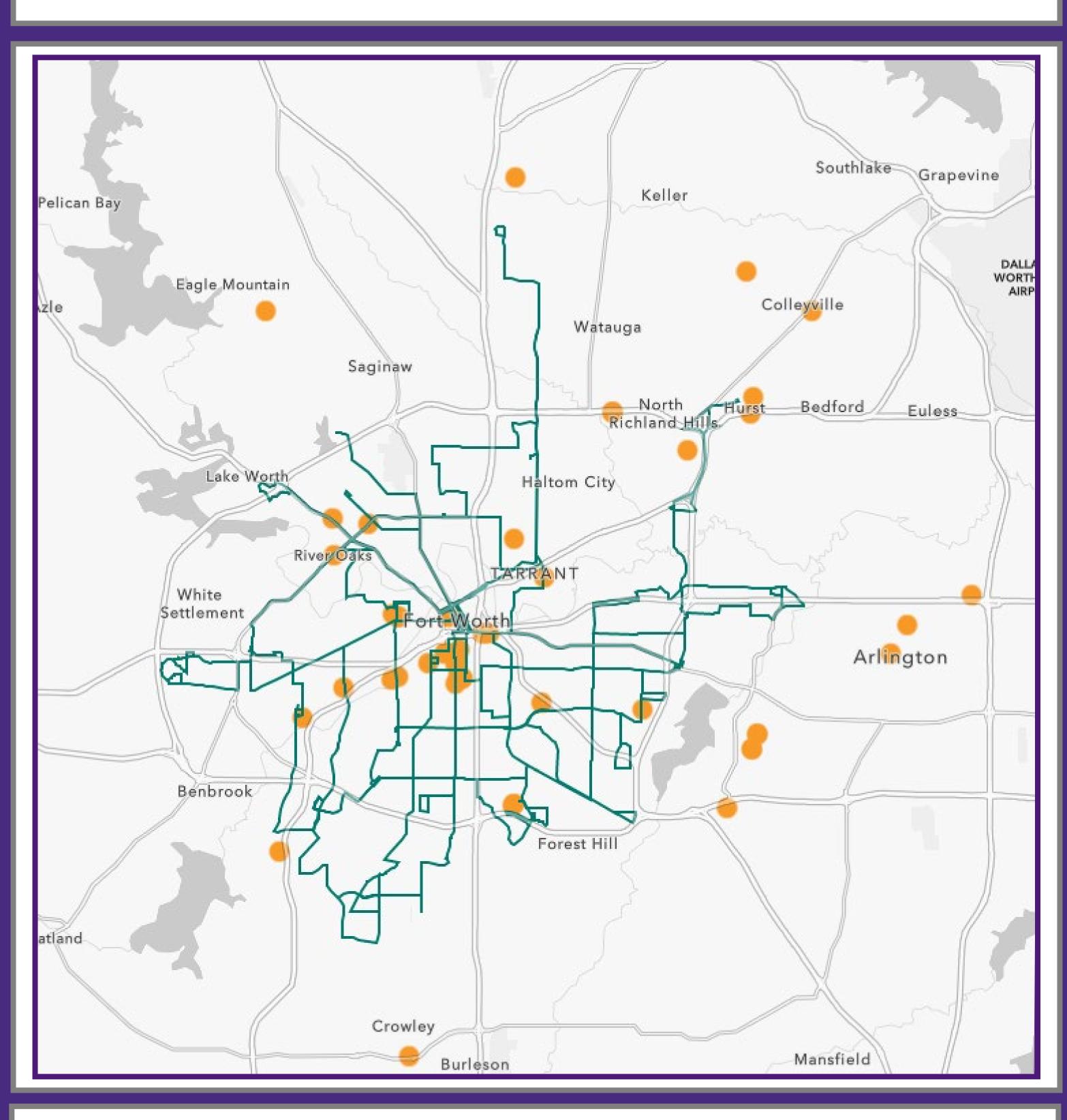
PowerPoint Template ©2009 Texas Christian University, Center for Instructional Services. For Educational Use Only. Content is the property of the presenter and their resources

Mental and Behavioral Health Clinics (N = 53)		<b>Women's Health Clinics</b> $(N = 30)$	
Arlington	9	Arlington	5
Azle	1	Azle Euless	1
Colleyville	2		
Crowley	1		2
Fort Worth	35	Fort Worth	18
Hurst	2	Haslet	1
Richland Hills	1	Mansfield 2	
River Oaks	1		2
Saginaw	1	Southlake	1

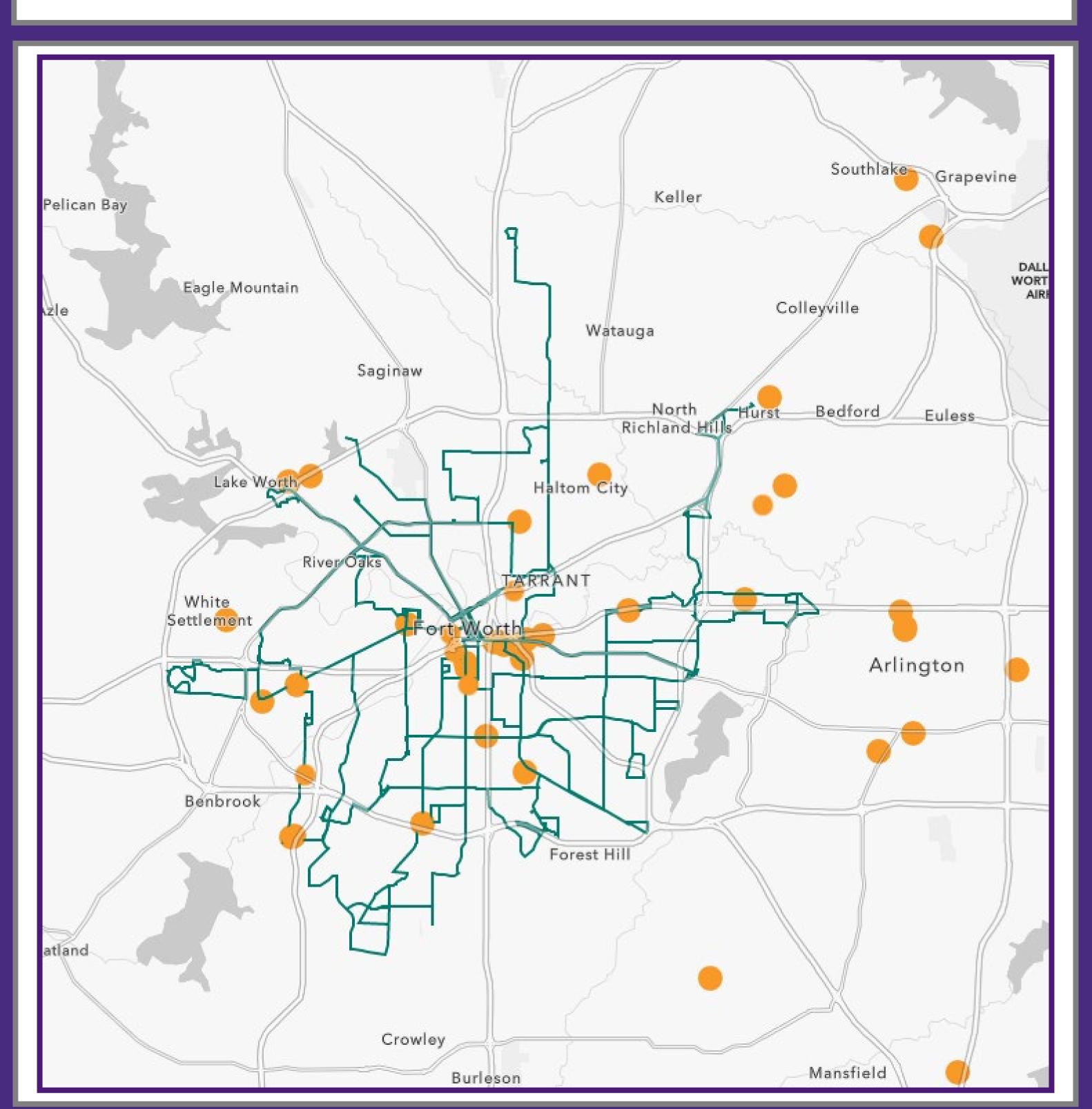
# **A Visualization of Tarrant County Public Transportation and Medical Services**

Vinisha Inaganti, Isabella Hopkins, Stephanie Villaire, BS, Amanda L. Wiese, PhD, Kevin Knight, PhD Texas Christian University

Substance Use and Addiction Clinics (N = 47)		
Arlington	7	
Fort Worth	32	
Grapevine	1	
Haltom City	1	
Hurst	3	
Mansfield	2	
Southlake	1	

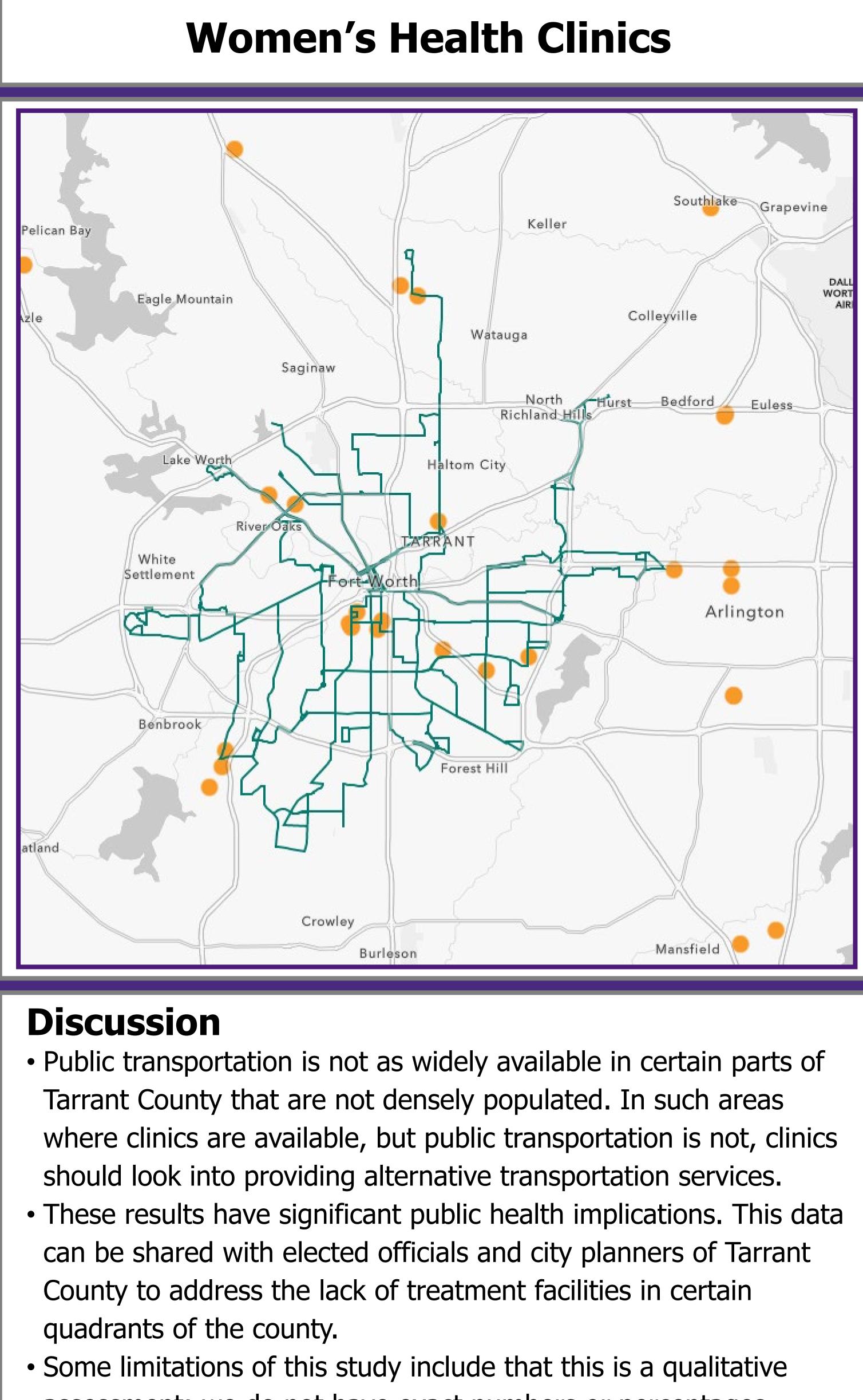






# **Mental and Behavioral Health Clinics**

# **Substance Use and Addiction Clinics**



# References https://doi.org/10.1186/s13011-016-0085-y







assessment; we do not have exact numbers or percentages. • This study could be expanded to include transportation upon request options offered by the public transportation agency. • Future studies could quantify the overlap between public transportation and available clinics in the county.

• Future geographical analyses of treatment deserts could look at the correlation between availability of OUD treatment facilities and geo-tagged opioid use deaths in a certain area.

Fort Wort TMP. (2019). State of the System Report 2019. Fort Worth TMP.

https://www.fortworthtexas.gov/files/assets/public/tpw/documents/tmfw-3-market.pdf Hewell, V.M., Vasquez, A.R., & Rivkin, I.D. (2017). Systemic and individual factors in the buprenorphine treatment-seeking process: A qualitative study. Subst Abuse Treat Prev Policy 12(3).

Mitchell, P., Samsel, S., Curtin, K. M., Price, A., Turner, D., Tramp, R., Hudnall, M., Parton, J., & Lewis, D. (2022). Geographic disparities in access to Medication for Opioid Use Disorder across US census tracts based on treatment utilization behavior. Social Science & Medicine, 302, 1–14. https://doi.org/10.1016/j.socscimed.2022.114992