

# Catchment Area Definition and Determinants

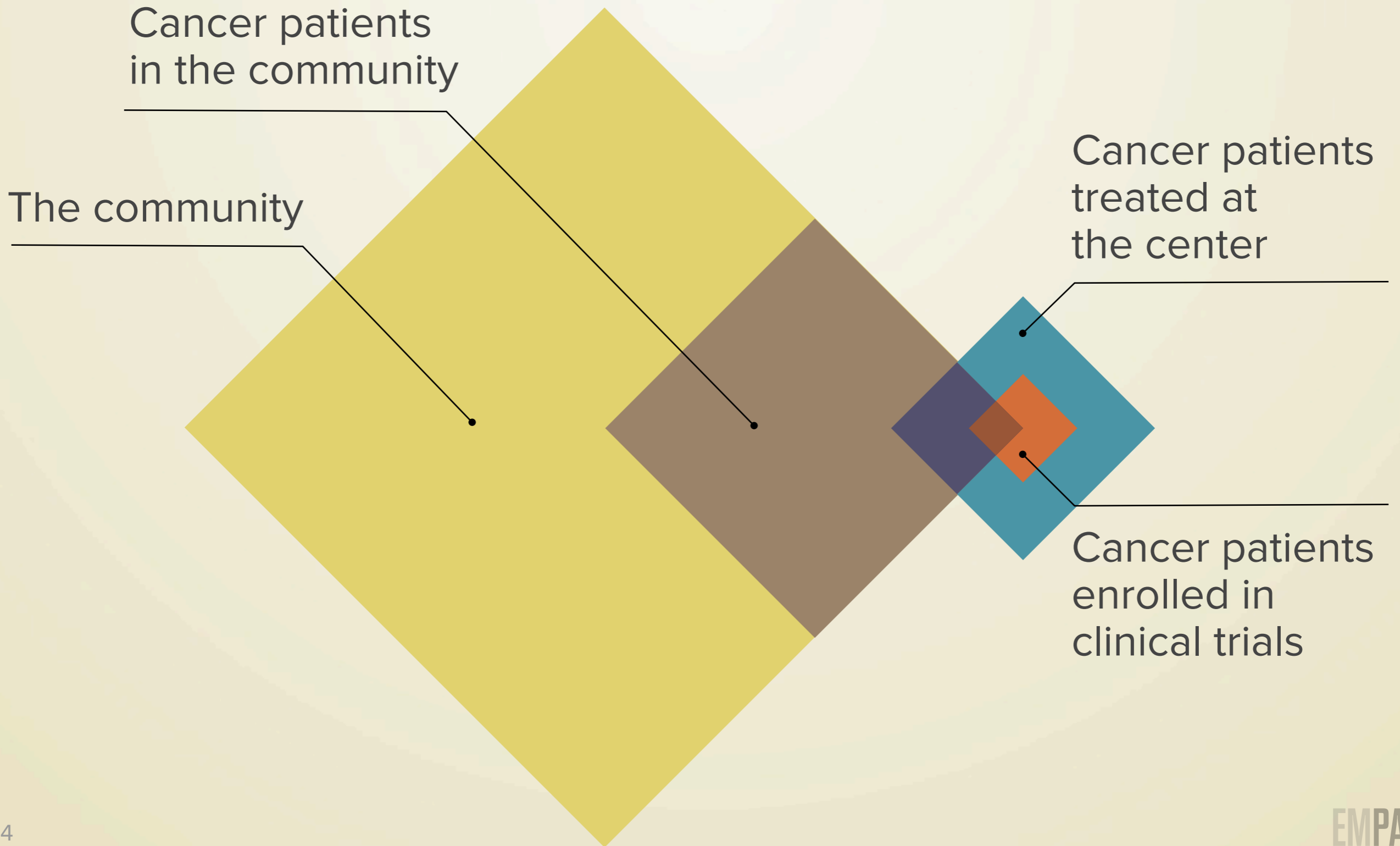
# Catchment area definition

- The geographic area and population from which a cancer center attracts patients
- Catchment areas are typically based on local or state boundaries e.g. county, city or state
- May be based on distance or time traveled
- Primary unit of comparison for a center's enrollment of racial and ethnic minorities

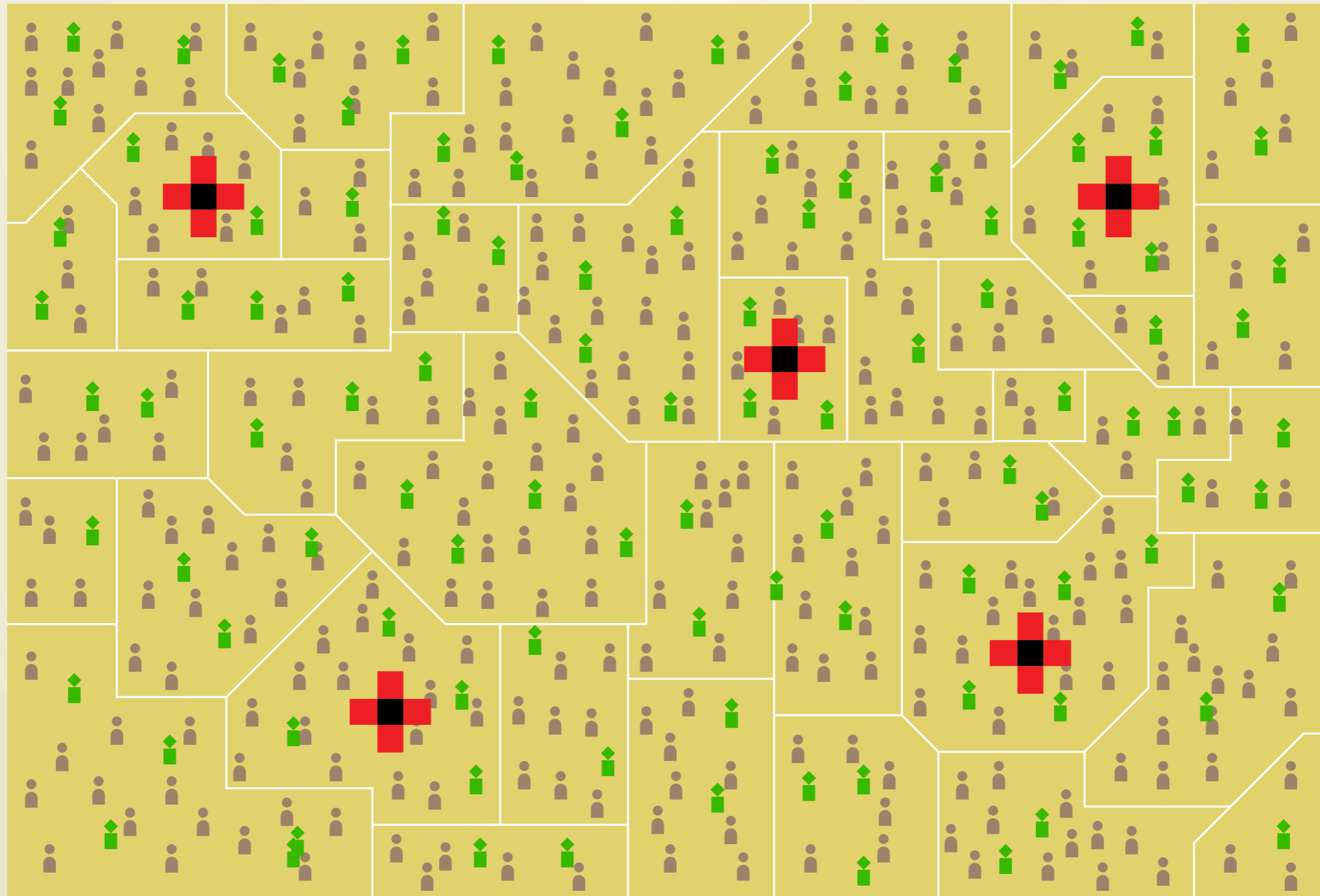
# Catchment Area

- The National Cancer Institute (NCI) allows each cancer center to define its own catchment area
- Catchment area definition and population data are required as part of the Cancer Center Support Grant (CCSG) 5 year renewal process

# Relevant Populations for NCI Cancer Centers

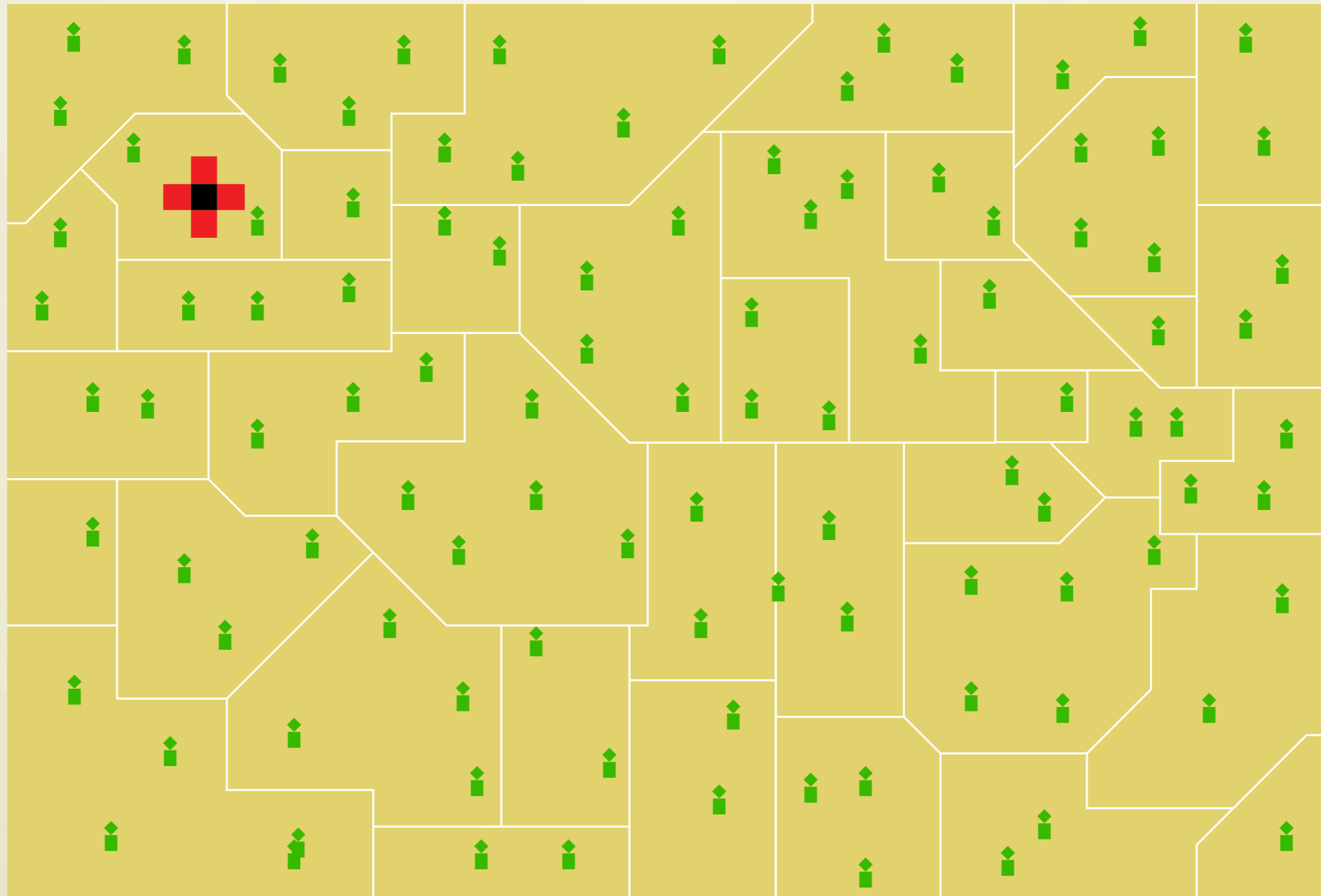


# How the Five EMPACT Centers Define Catchment Area



How the Five EMPACT Centers Define Catchment Area

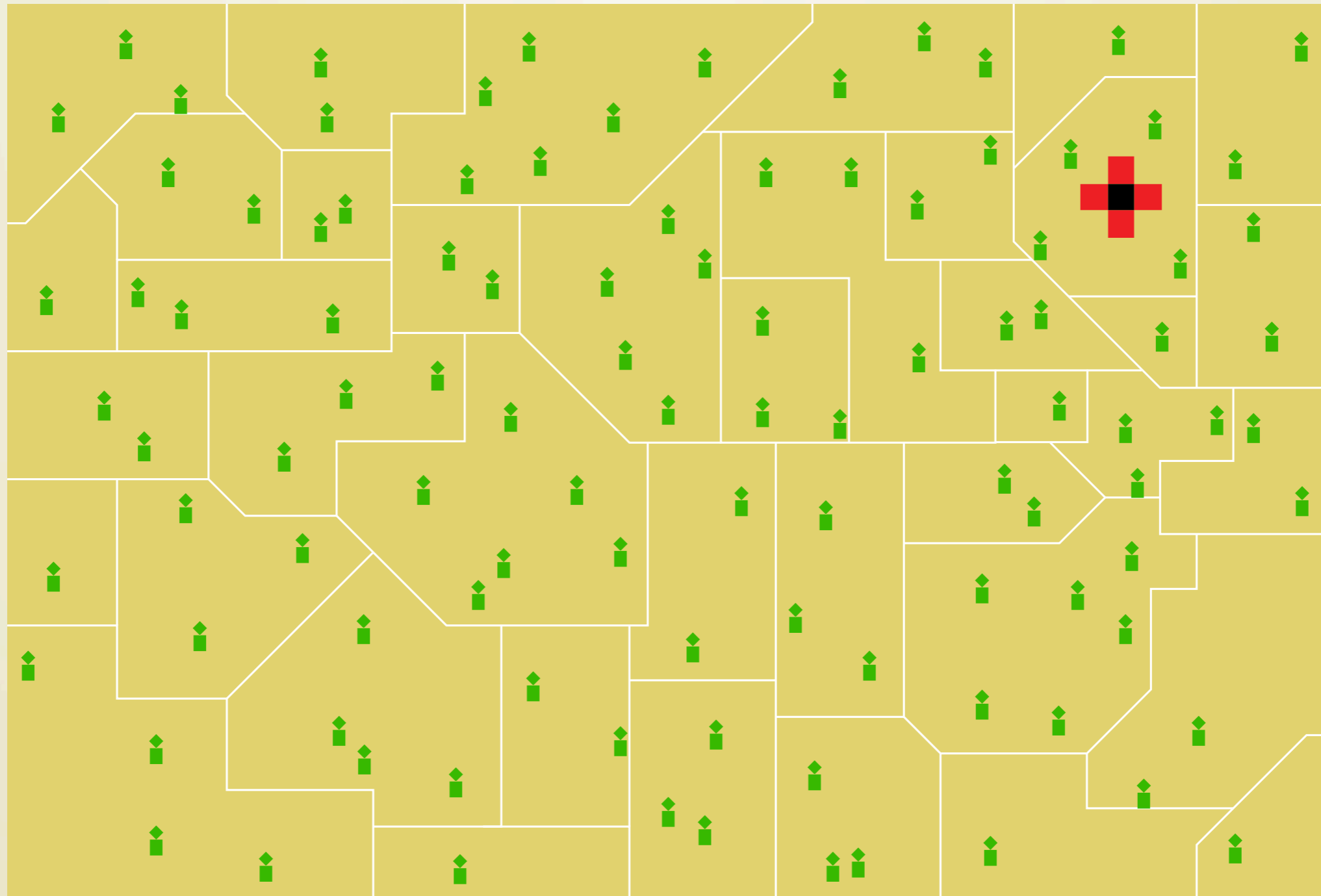
# By State Cancer Registry



How the Five EMPACT Centers Define Catchment Area

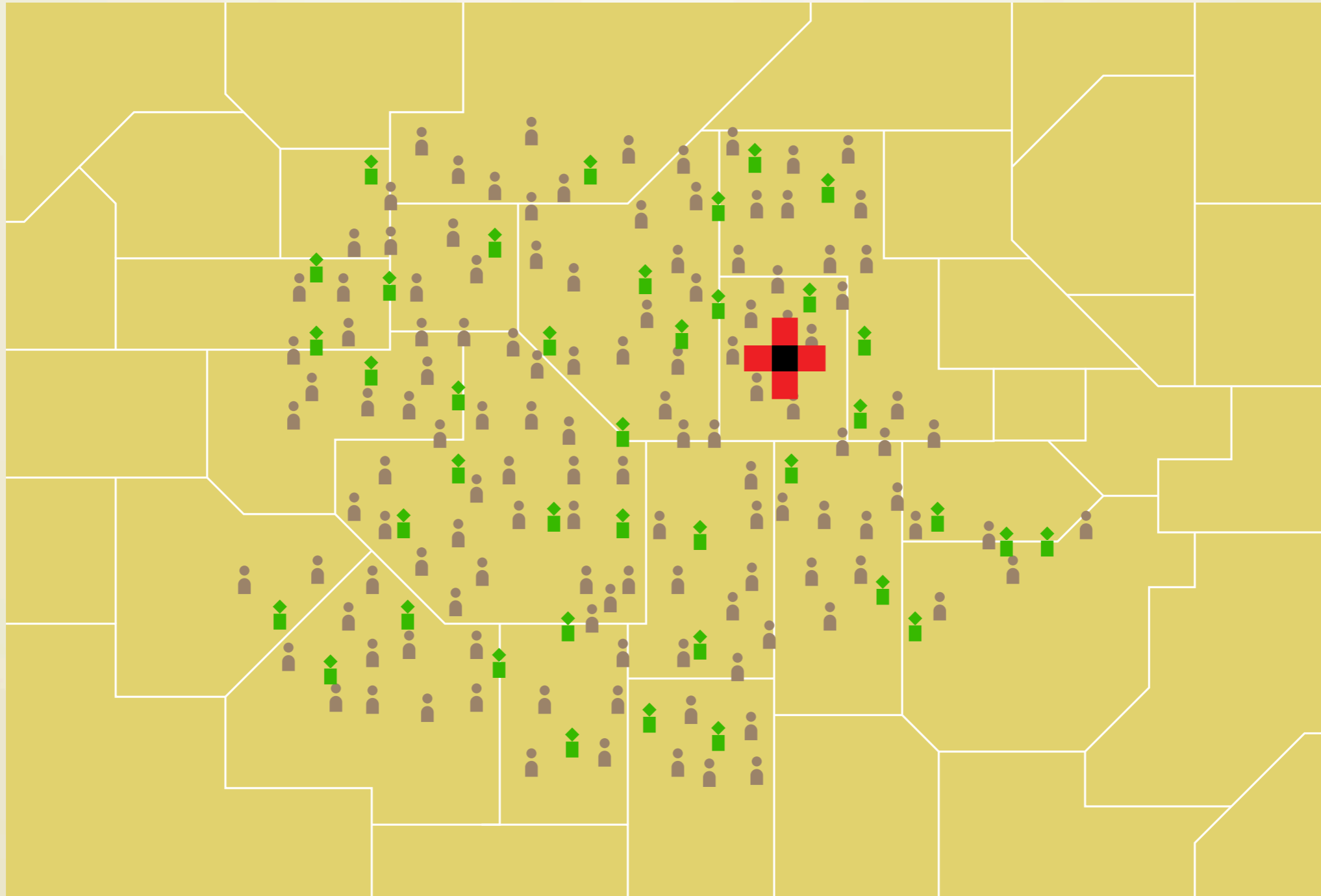
# By State Cancer Registry

Same definition, different location



How the Five EMPACT Centers Define Catchment Area

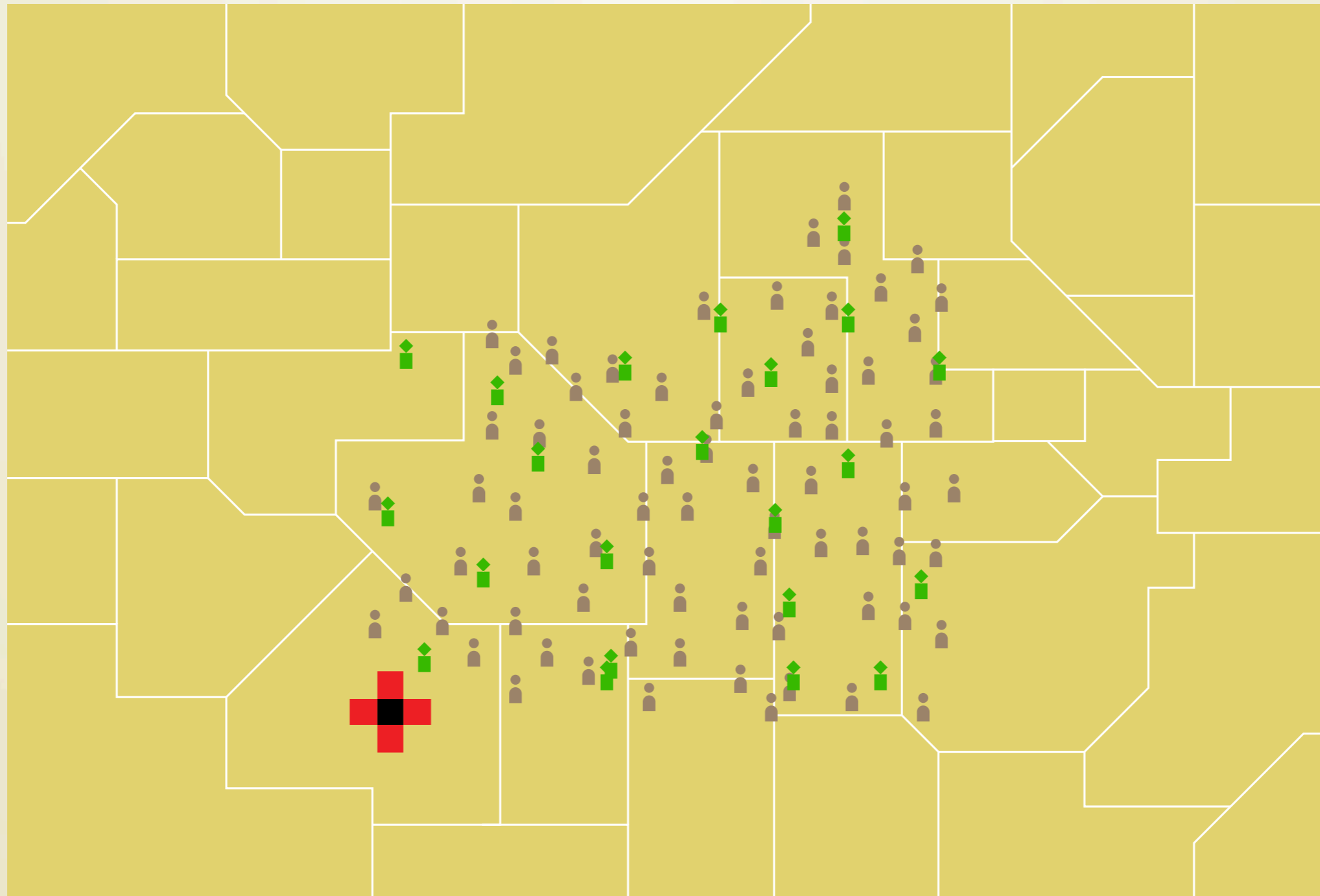
# By Adjacent Counties





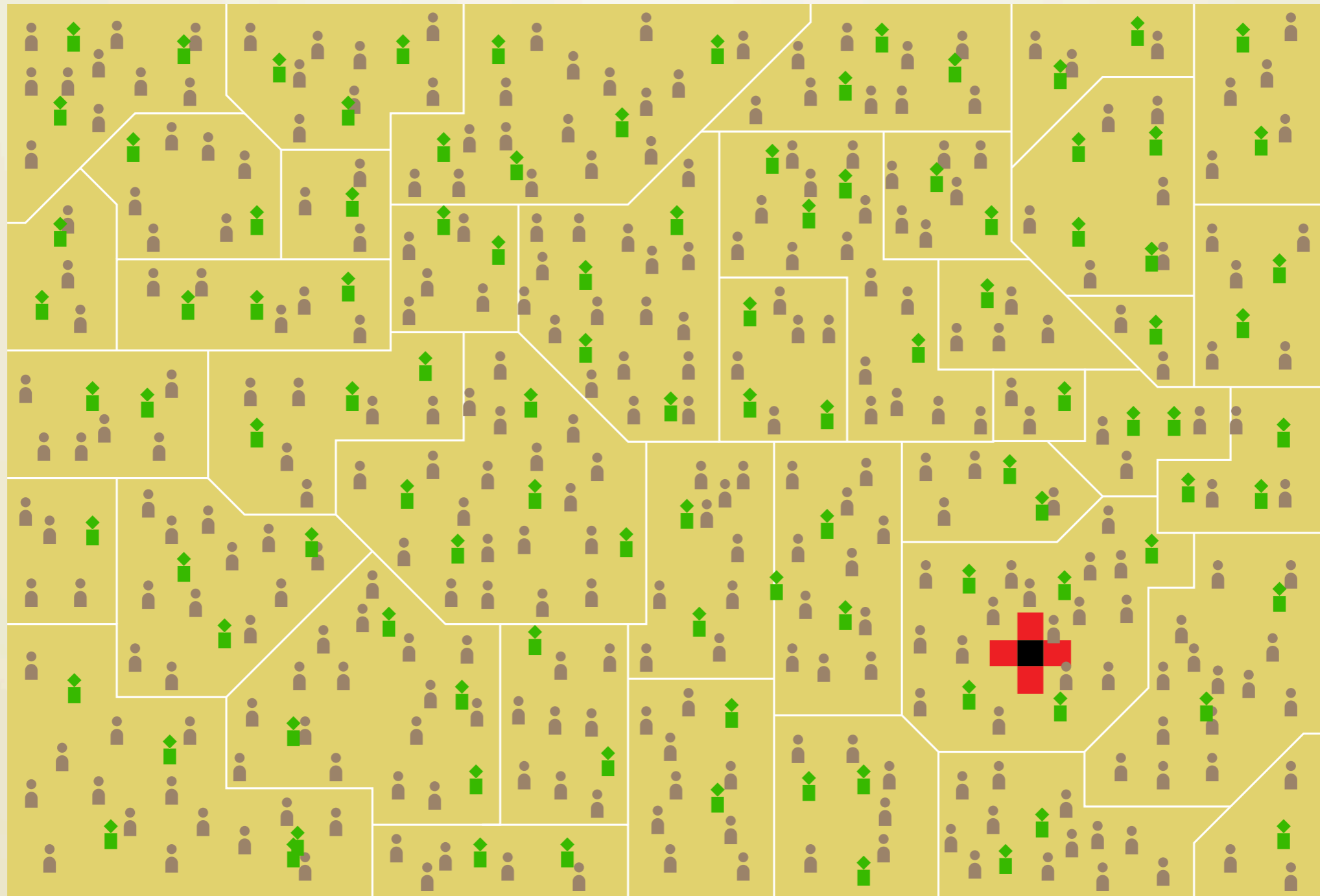
How the Five EMPACT Centers Define Catchment Area

# By Counties Directly Adjacent to the City



How the Five EMPACT Centers Define Catchment Area

# By State Population

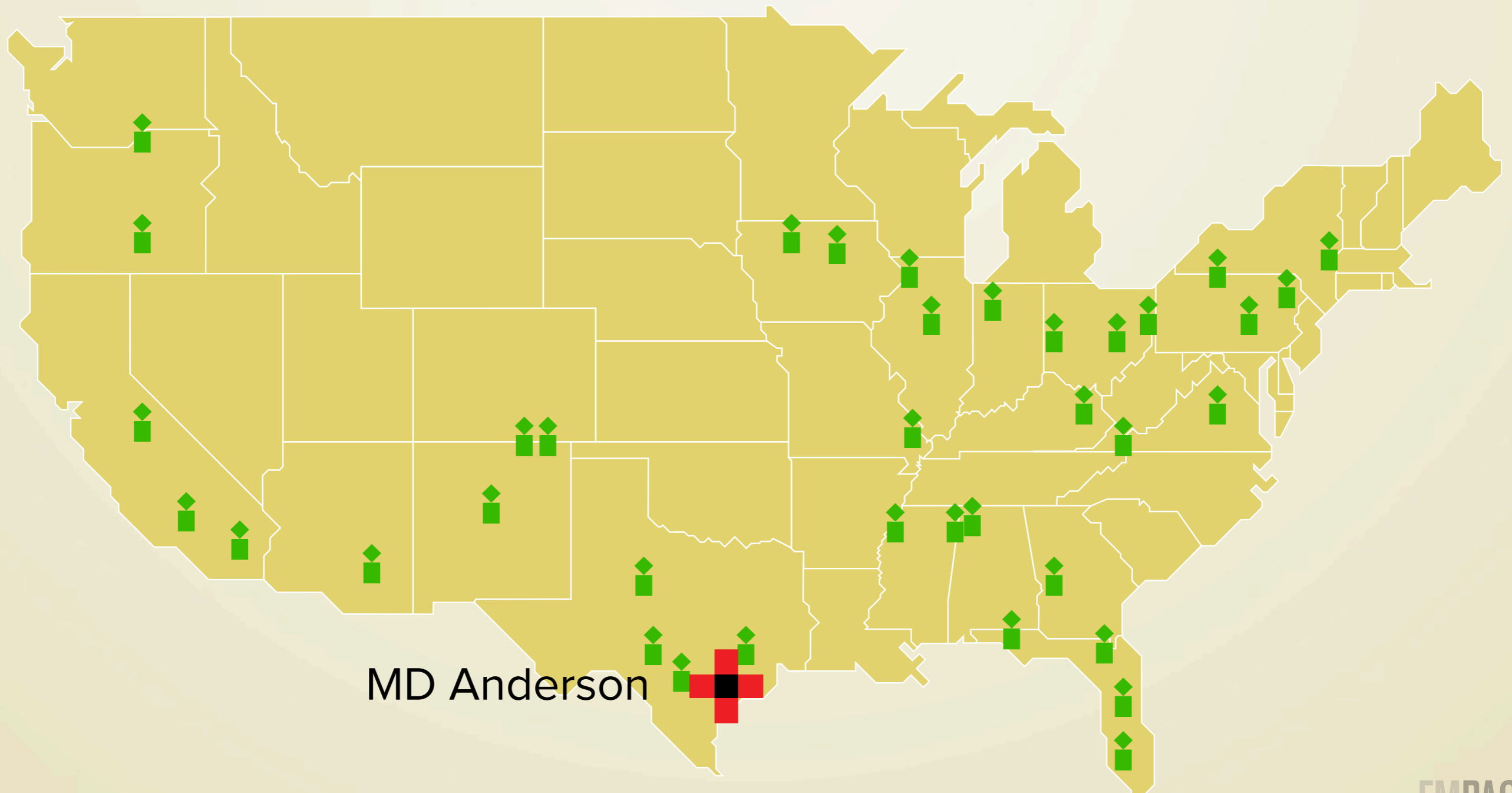


# Learn More

- For a detailed description of how one cancer center determined catchment area, read *Spatial Analyses Identify the Geographic Source of Patients at a National Cancer Institute Comprehensive Cancer Center*.
- Su SC, Kanarek N, Fox MG. Clin Cancer Res 2010;16:1065-1072
- <http://clincancerres.aacrjournals.org/content/16/3/1065clincancerres.aacrjournals.org>

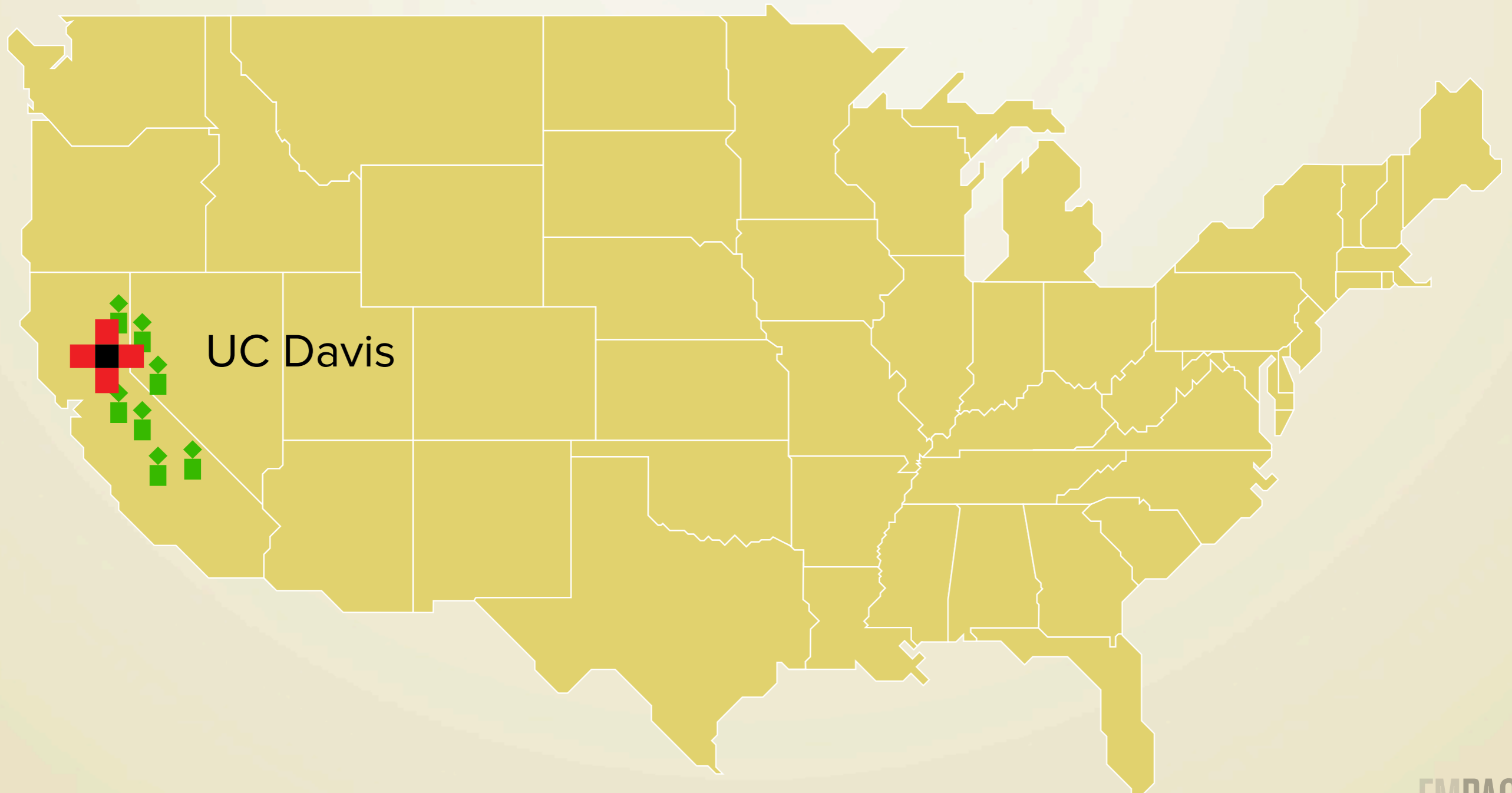
# Catchment Area-Geographic Clusters of Patients

How would the geographic clusters of patients differ by institution?



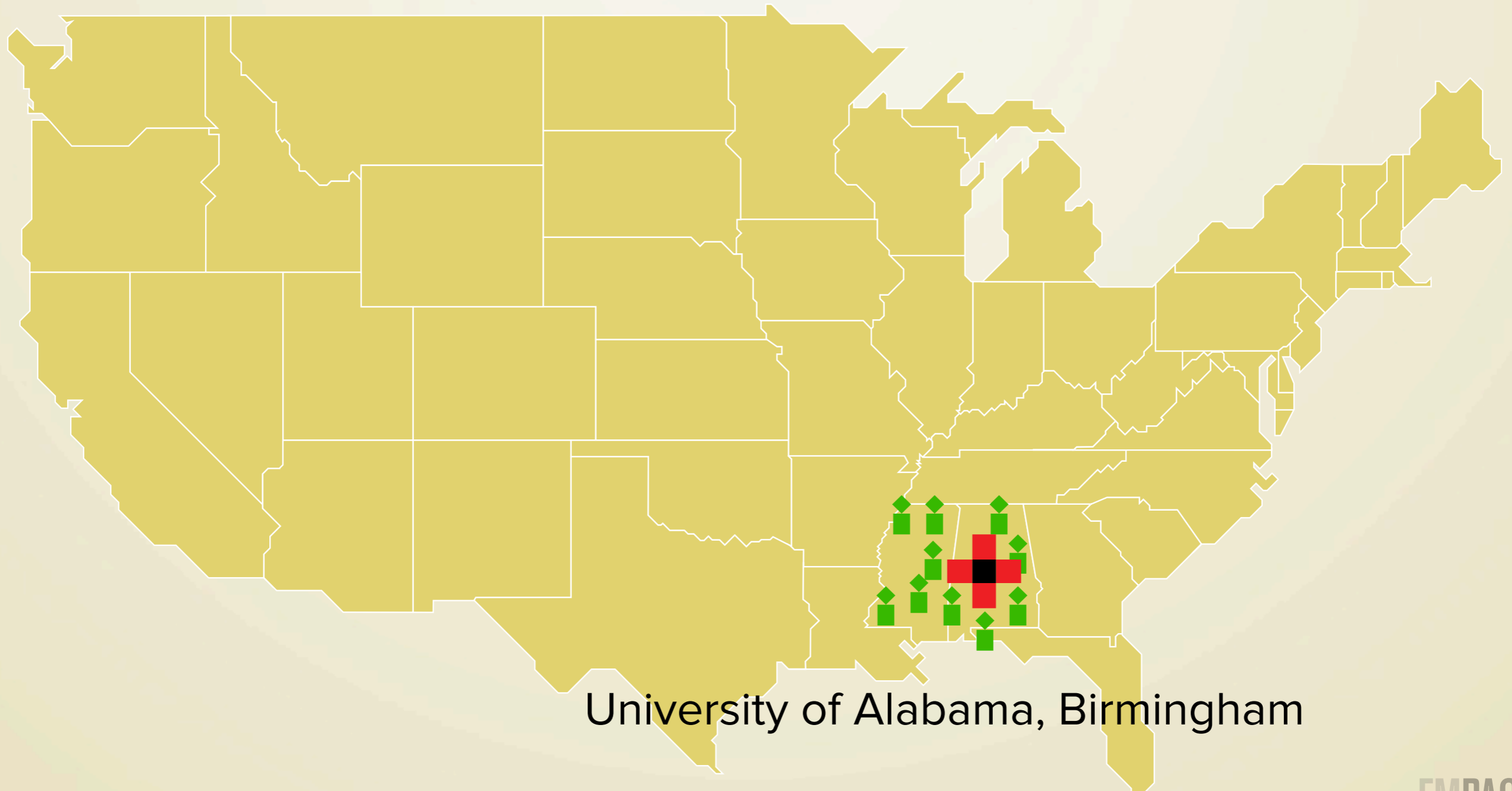
# Catchment Area-Geographic Clusters of Patients

How would the geographic clusters of patients differ by institution?



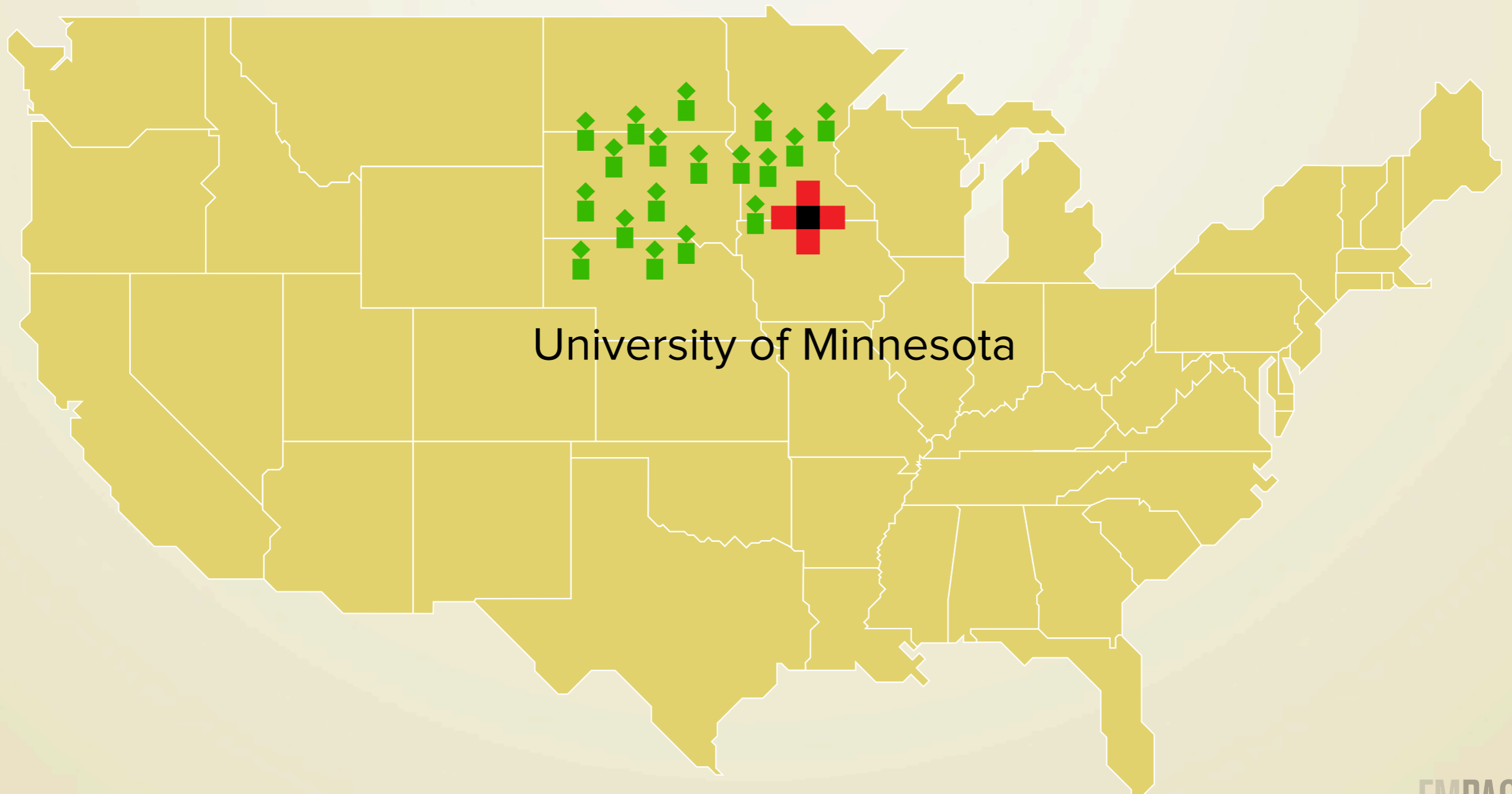
# Catchment Area-Geographic Clusters of Patients

How would the geographic clusters of patients differ by institution?



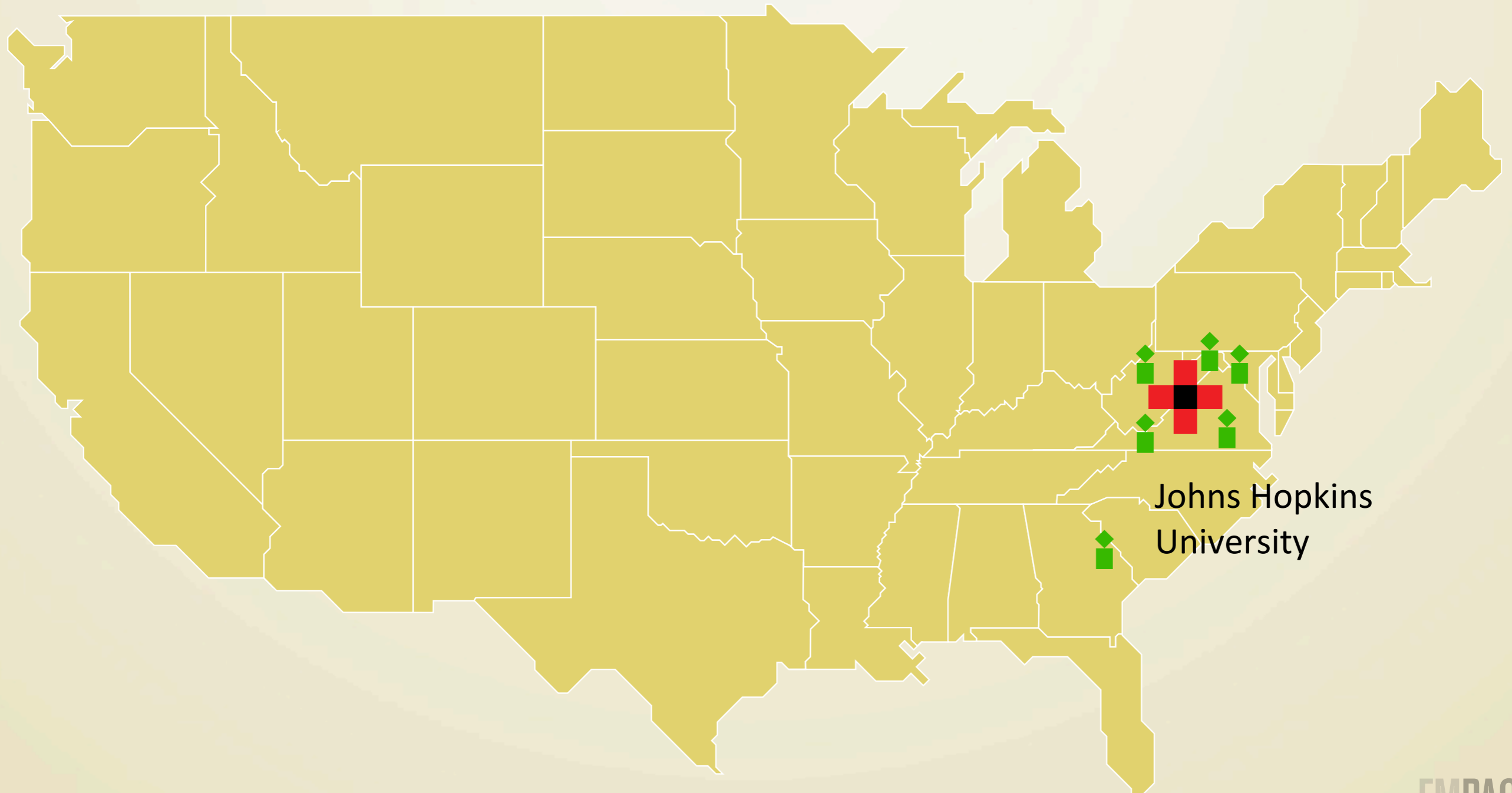
# Catchment Area-Geographic Clusters of Patients

How would the geographic clusters of patients differ by institution?



# Catchment Area-Geographic Clusters of Patients

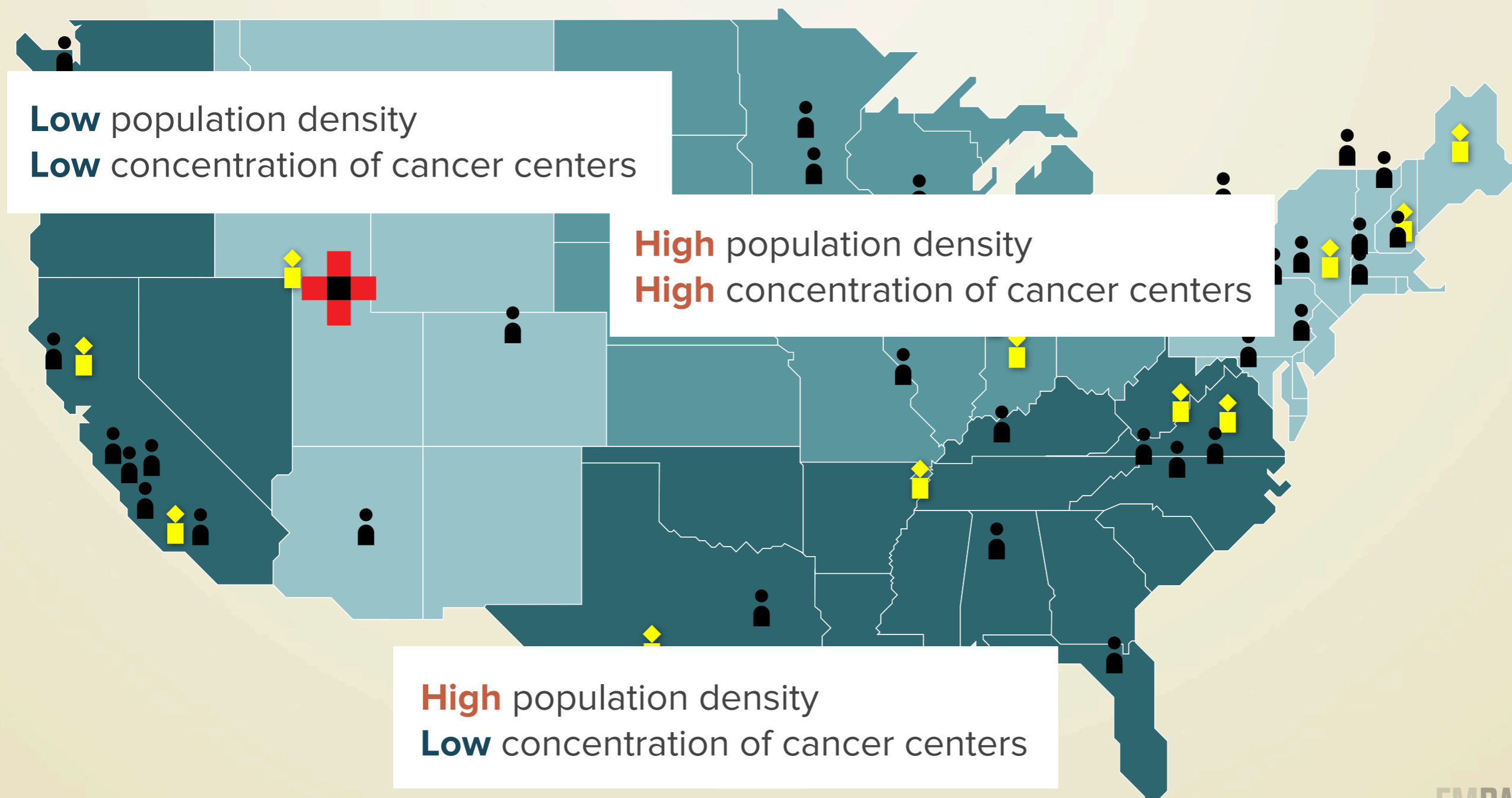
How would the geographic clusters of patients differ by institution?





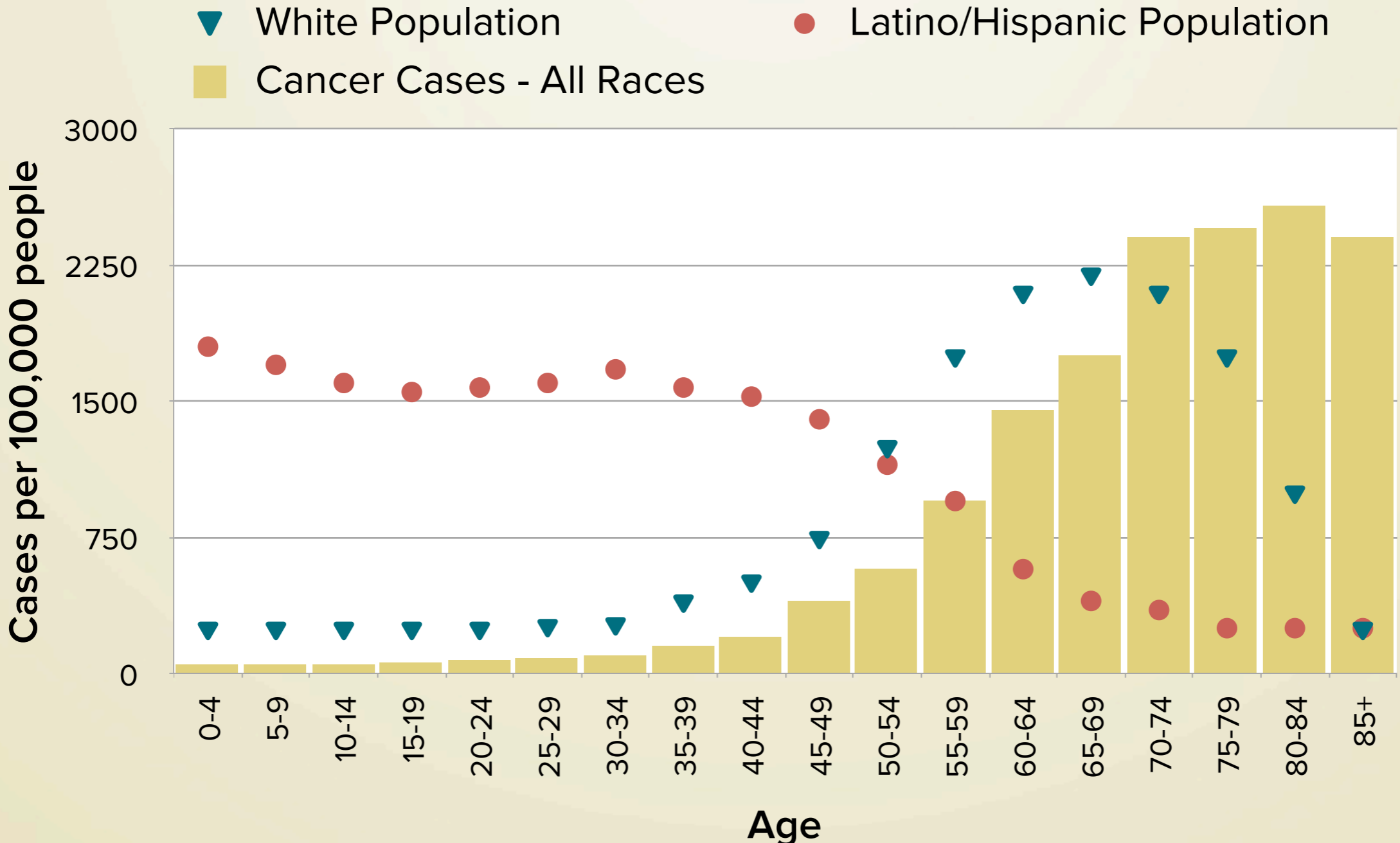
# Catchment Area-Population Density and Concentration of Cancer Centers

How would a center's catchment area differ by location?



# Catchment Area-Population Vs. Cancer Cases

- What is the impact of using only cancer cases to define catchment area?
- How does immigration and aging population affect cancer case distribution?



# Summary

- Each center must define its catchment area in response to inclusion of women and minorities
- A catchment area should encompass the area from which center cancer patients are drawn
- Catchment areas may range from a metropolitan area to a state area or multi-state area
- Use of cancer cases vs. general population to define will change the catchment area population
- Careful definition and understanding of the catchment area are needed to correctly create goals and assess progress