Utica Proposed Hospital Location Versus Population Centers

April 26, 2019

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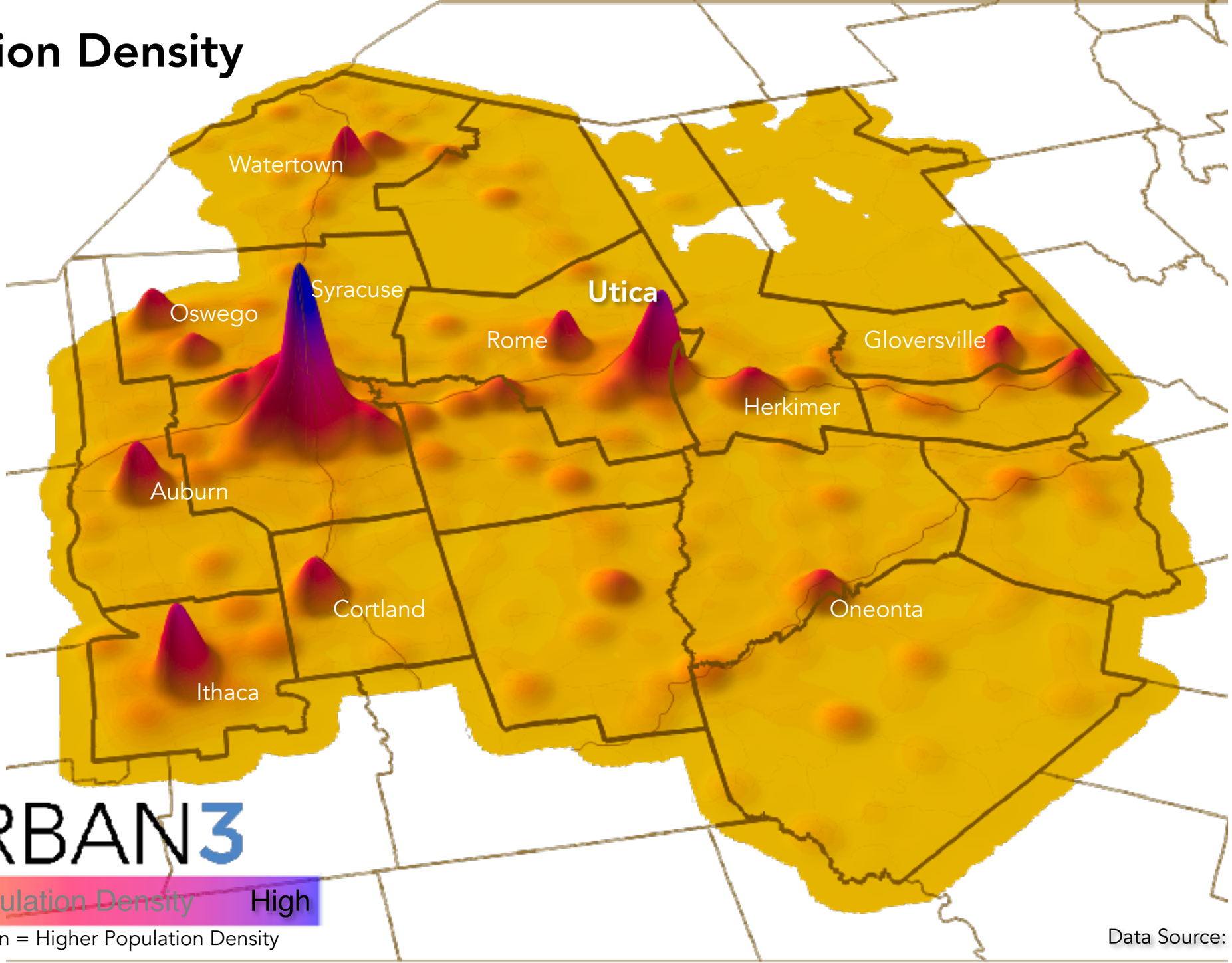
Population Density



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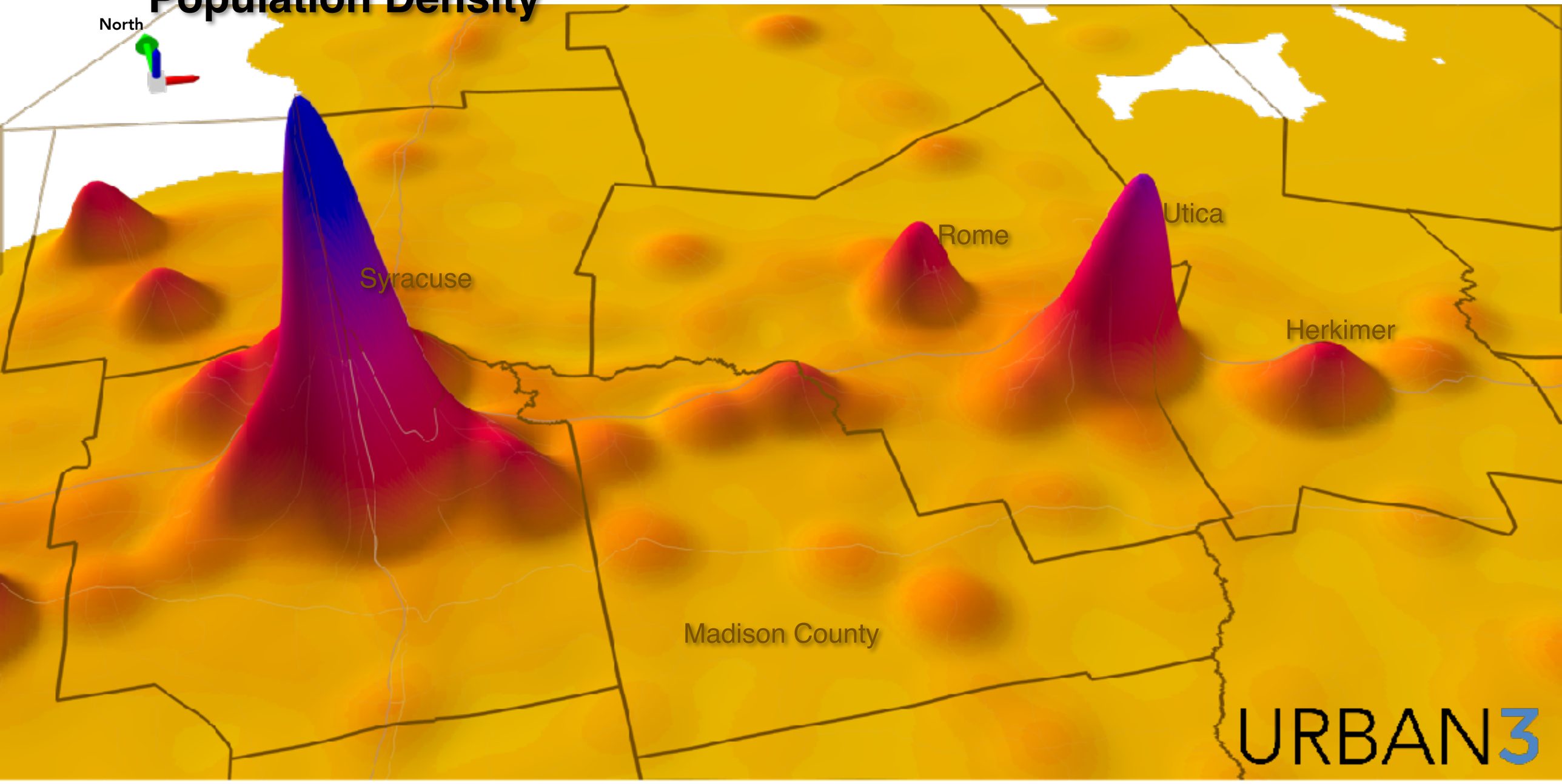
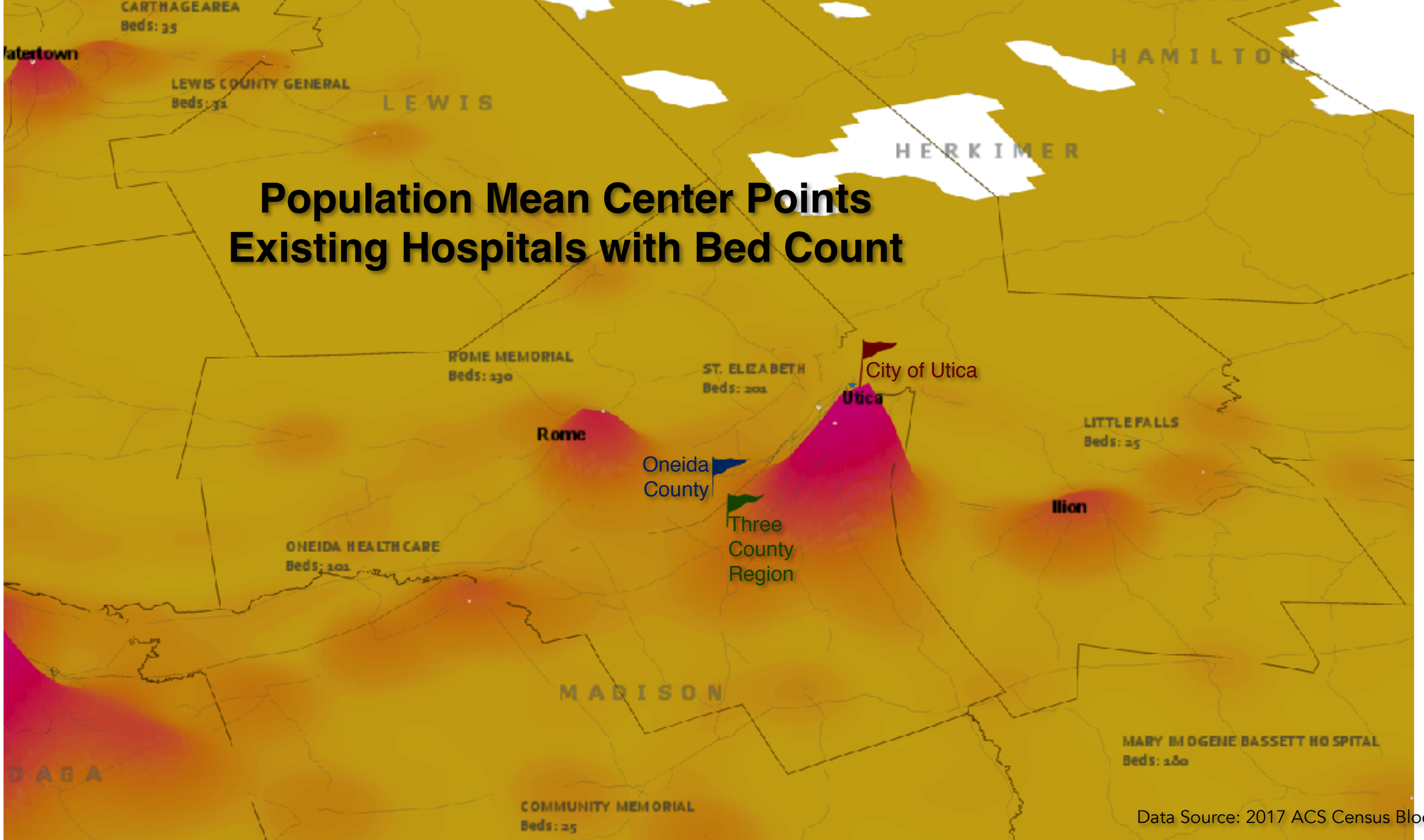
Low Population Density High

Higher Elevation = Higher Population Density

Data Source: 2017 ACS Census Block

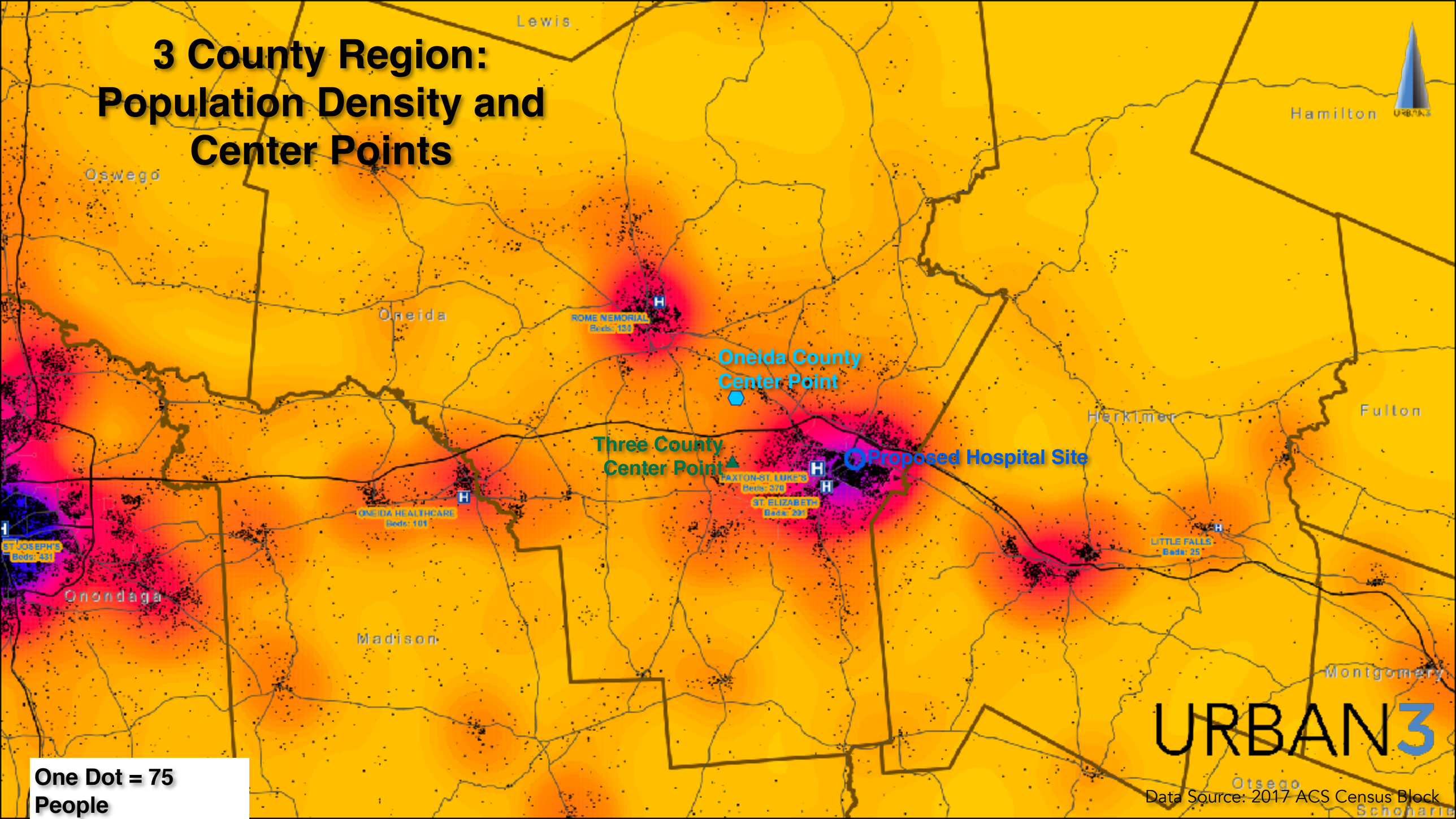
Population Density





Data Source: 2017 ACS Census Block

3 County Region: Population Density and Center Points



One Dot = 75 People

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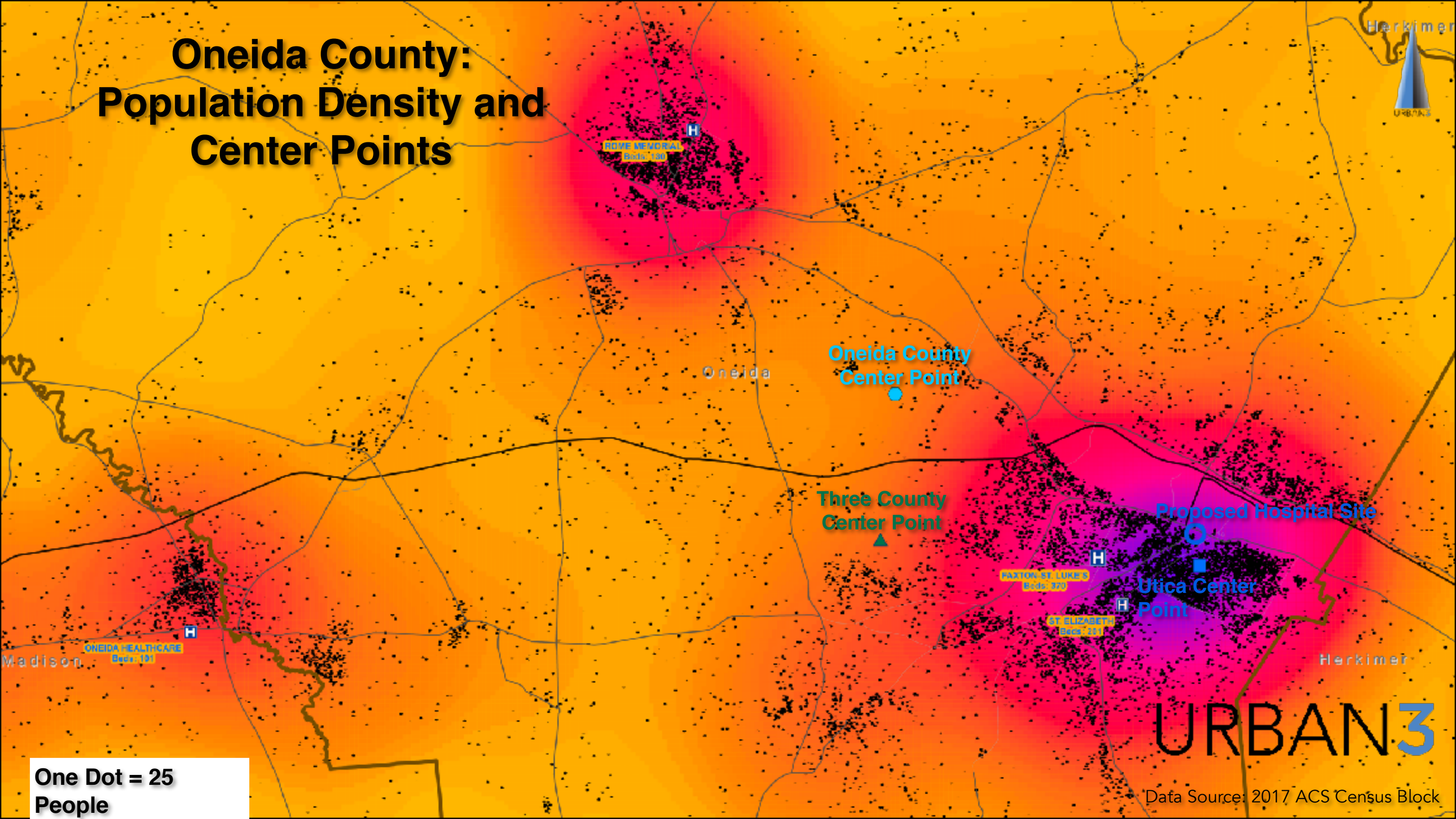
Data Source: 2017 ACS Census Block

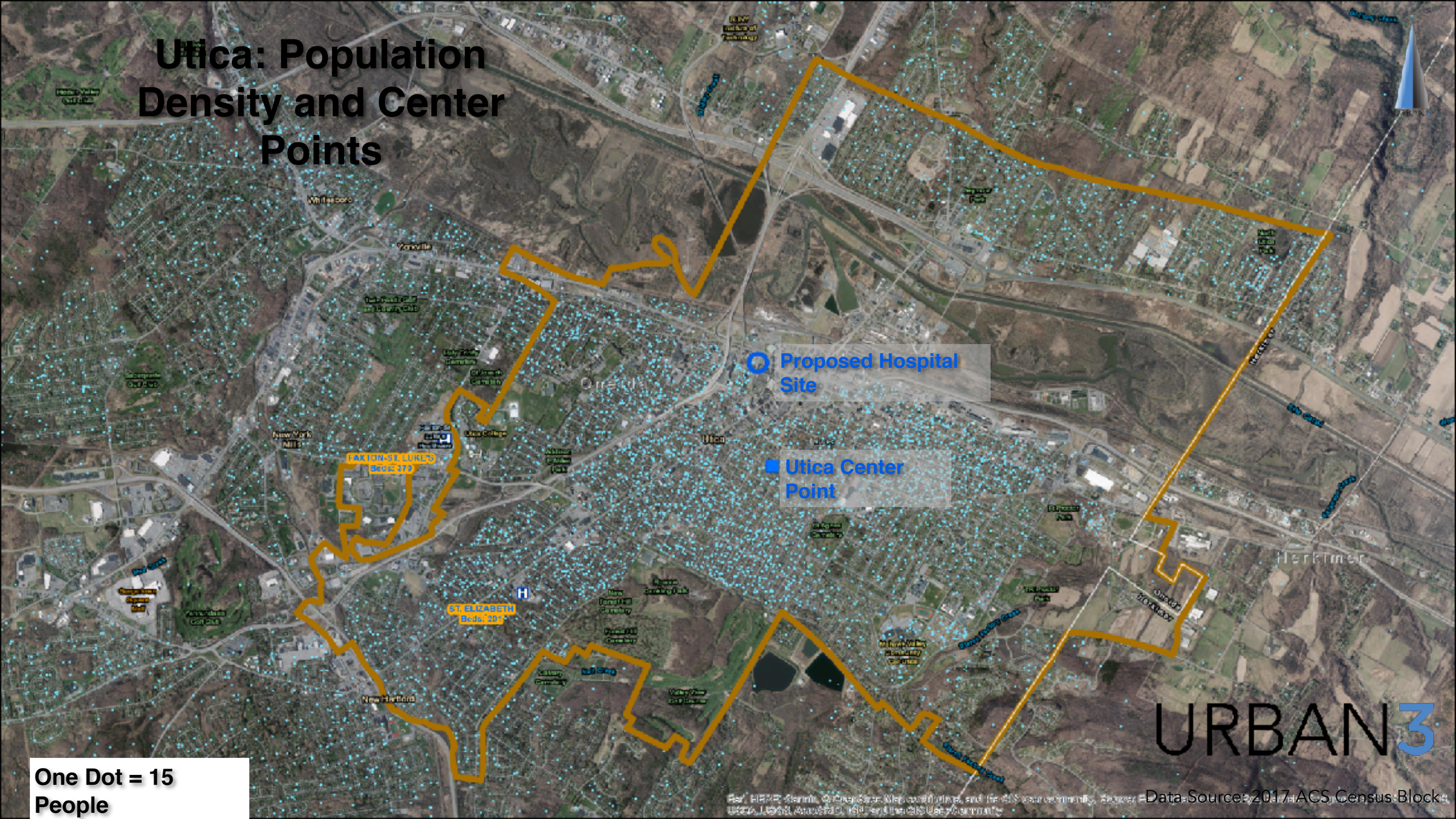
Oneida County: Population Density and Center Points



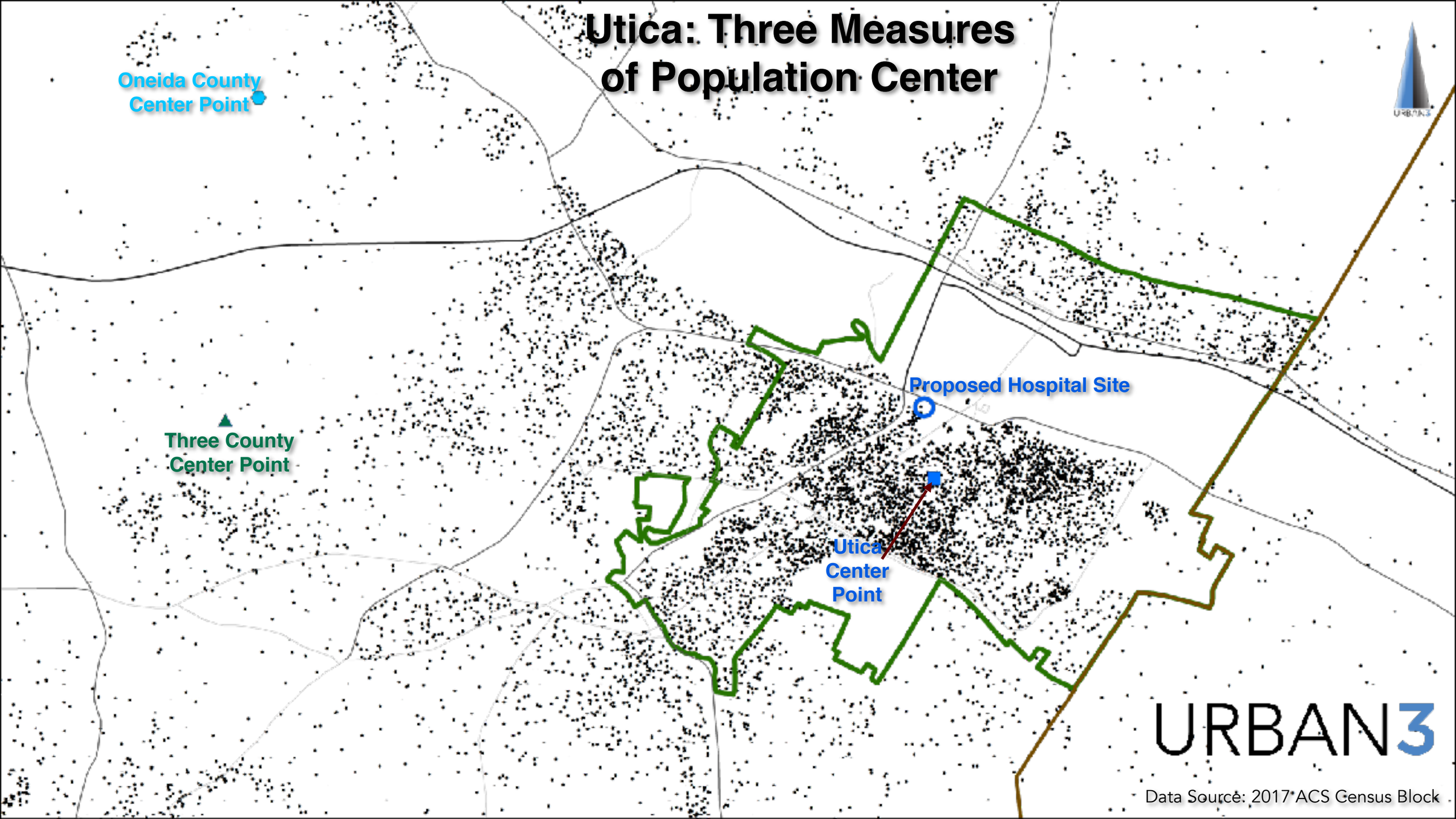
One Dot = 25 People

Data Source: 2017 ACS Census Block

Utica: Population Density and Center Points



Utica: Three Measures of Population Center



Data Source: 2017 ACS Census Block

How Many People Are Served by Current Facilities?

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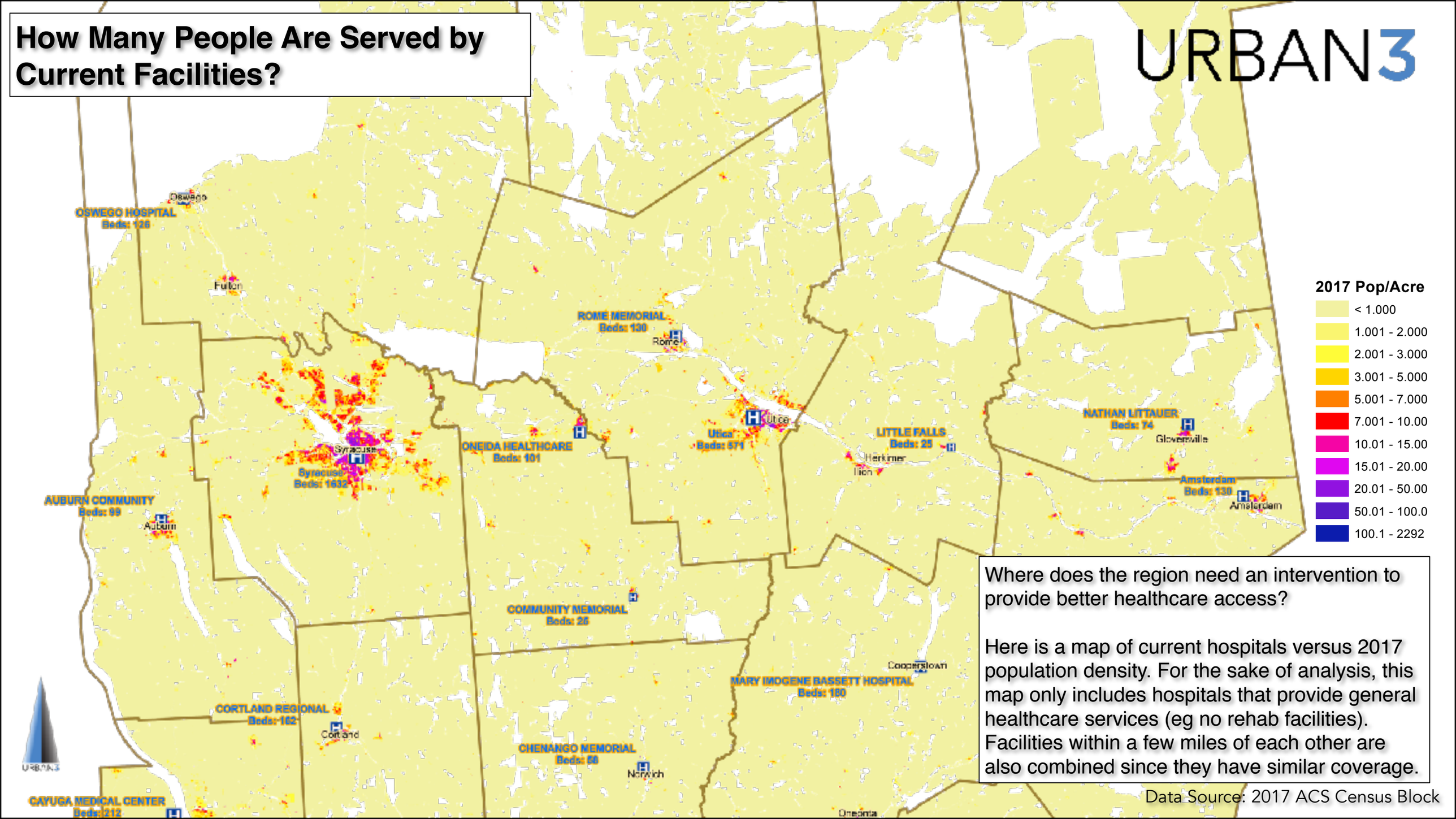


Where does the region need an intervention to provide better healthcare access?

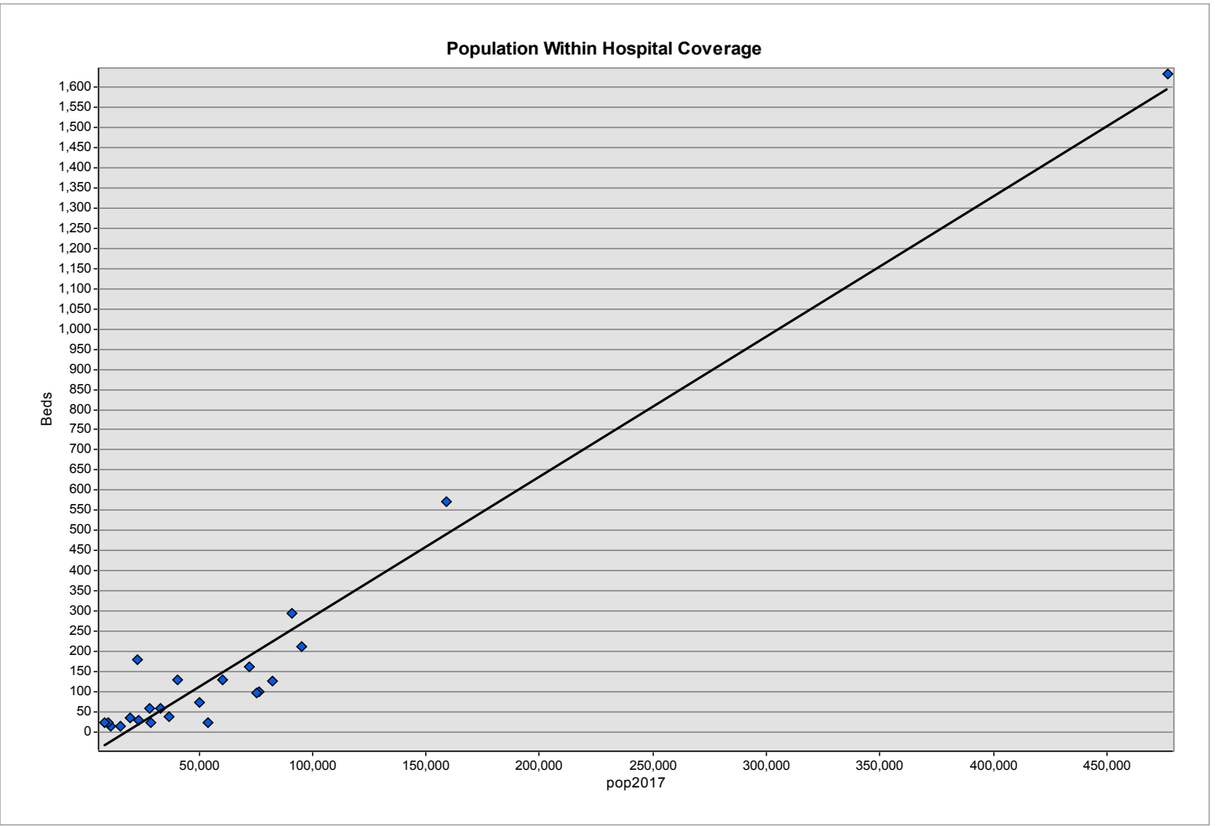
Here is a map of current hospitals versus 2017 population density. For the sake of analysis, this map only includes hospitals that provide general healthcare services (eg no rehab facilities). Facilities within a few miles of each other are also combined since they have similar coverage.

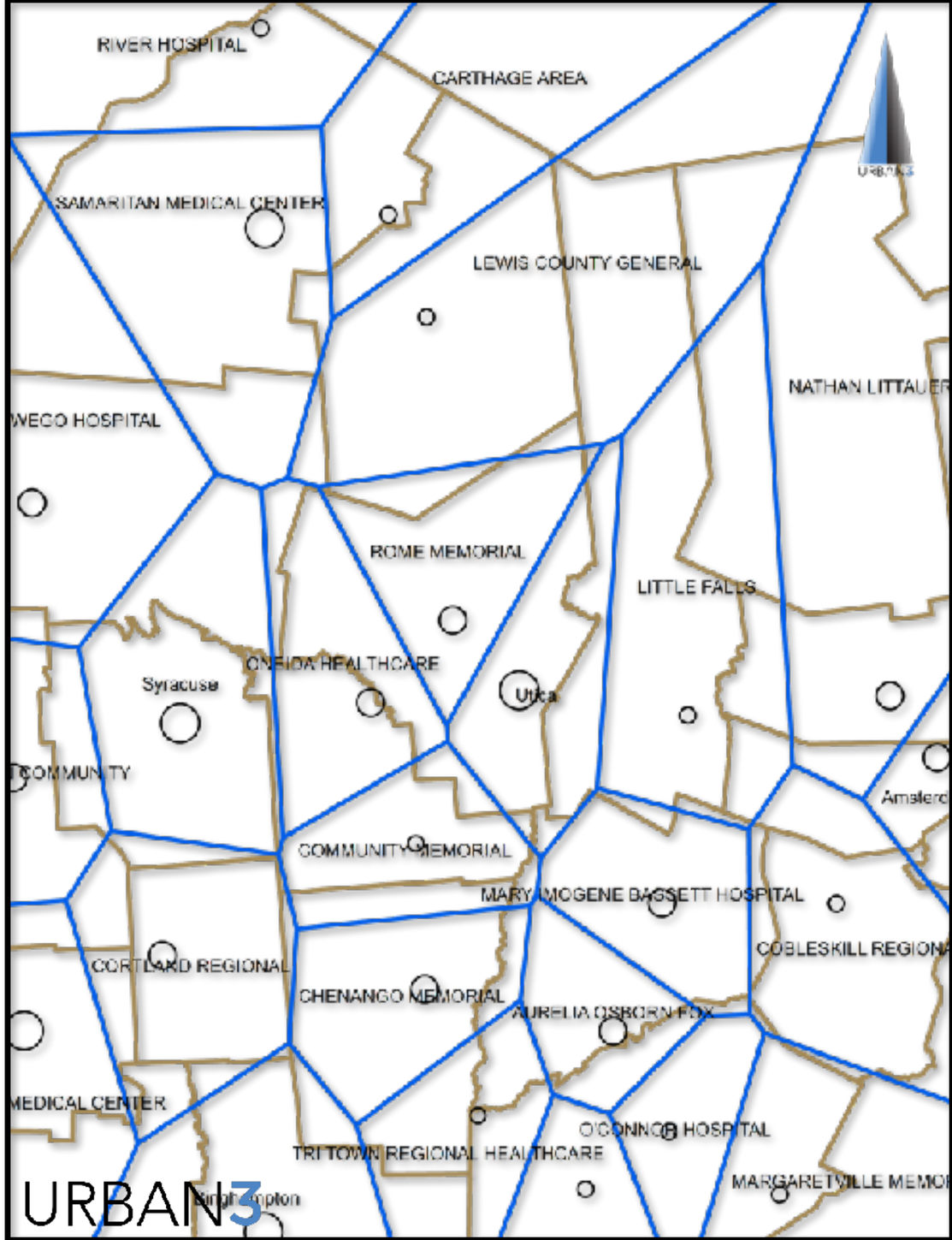
Data Source: 2017 ACS Census Block

How Many People Are Served by Current Facilities?

Where does the region need an intervention to provide better healthcare access?

To test the distribution of hospital coverage we will look at the middle distance between medical centers in the region. Once we create these zones we can compare the number of hospital beds to the contained population. This should give us a baseline for understanding whether the region has gaps in coverage. This will also help us come up with ideas to decide how we could address possible issues. The efficiency of healthcare provision is at odds with a dispersed development pattern. Economies of scale favor a smaller number of large facilities but this leaves open the possibility that some communities are too far from sufficient coverage. Within each coverage zone some communities have more hospital capacity per capita than others.





How Many People Are Served by Current Facilities?

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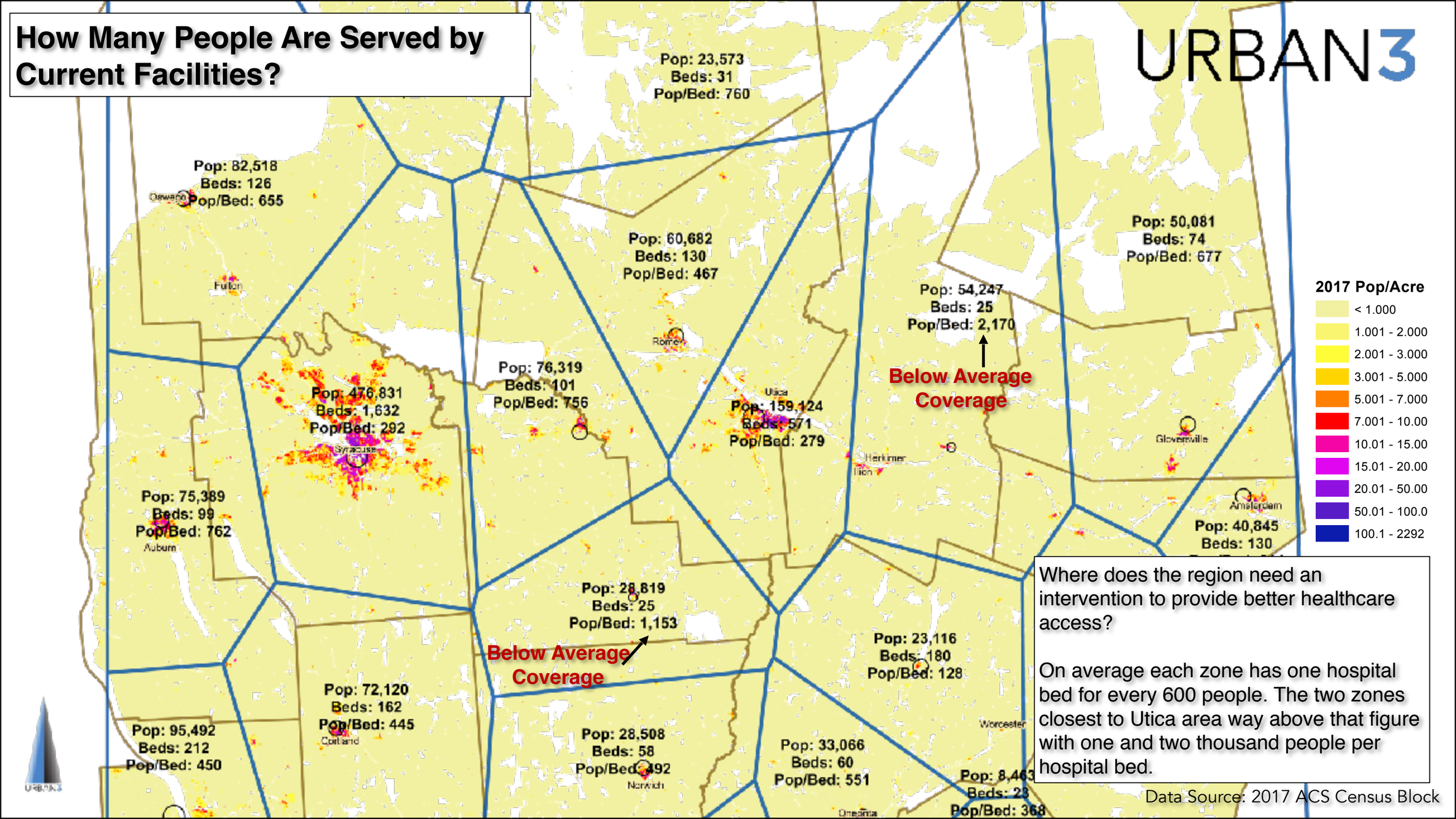

Where does the region need an intervention to provide better healthcare access?

On average each zone has one hospital bed for every 600 people. The two zones closest to Utica area way above that figure with one and two thousand people per hospital bed.

Data Source: 2017 ACS Census Block

What are some possible solutions to provide better access for these areas?

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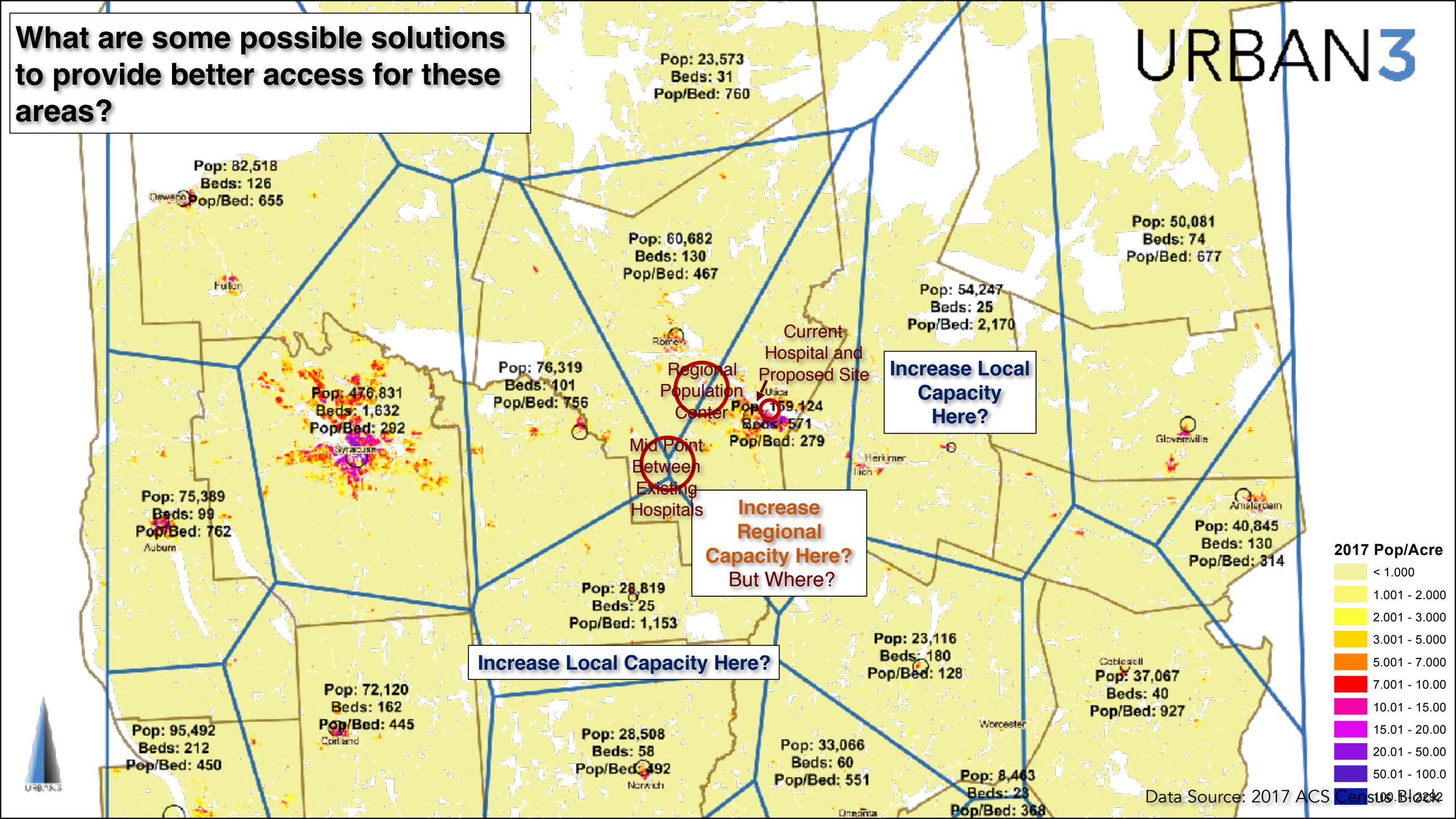

Data Source: 2017 ACS Census Block

Population Within Hospital Areas

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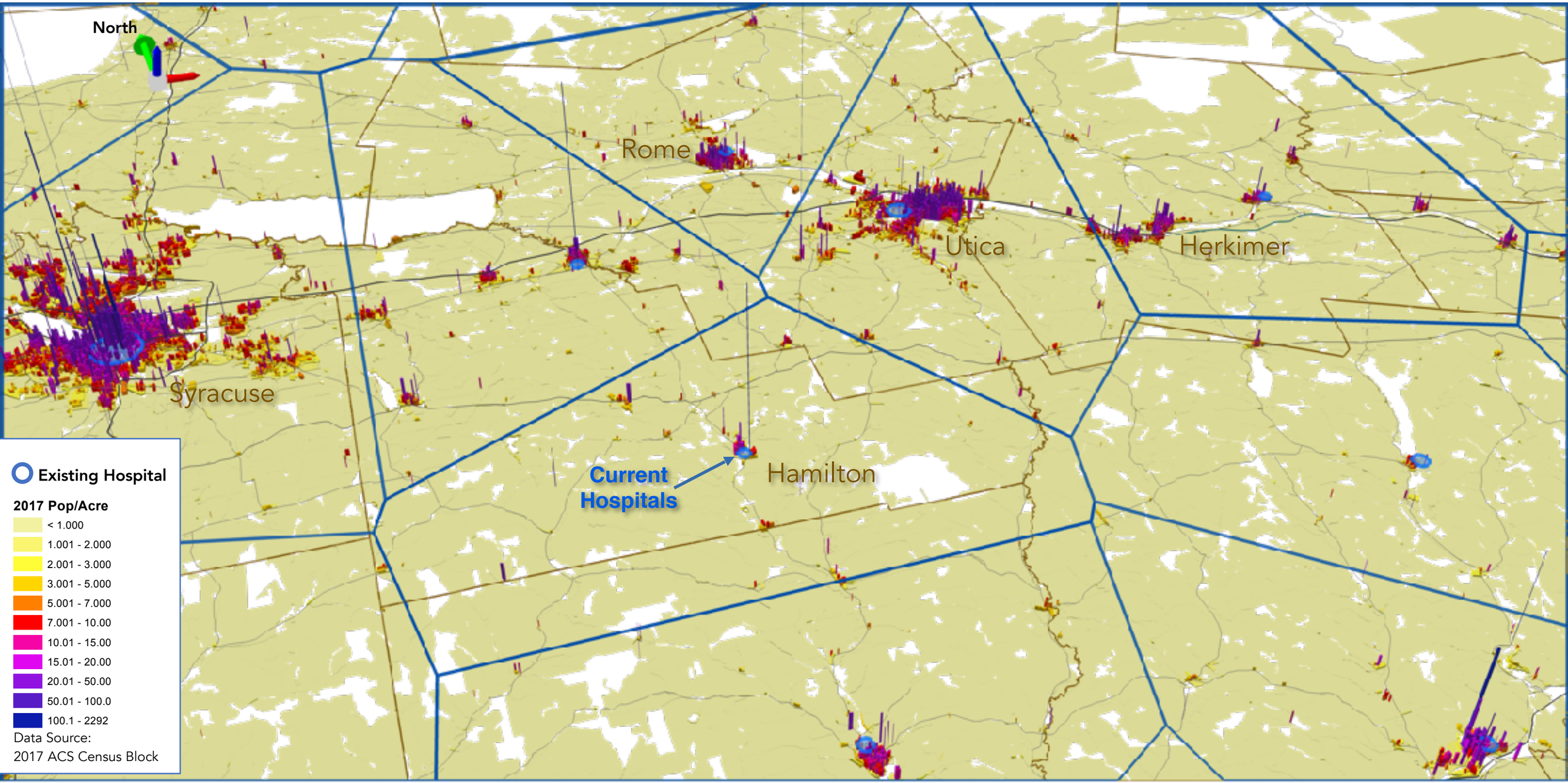
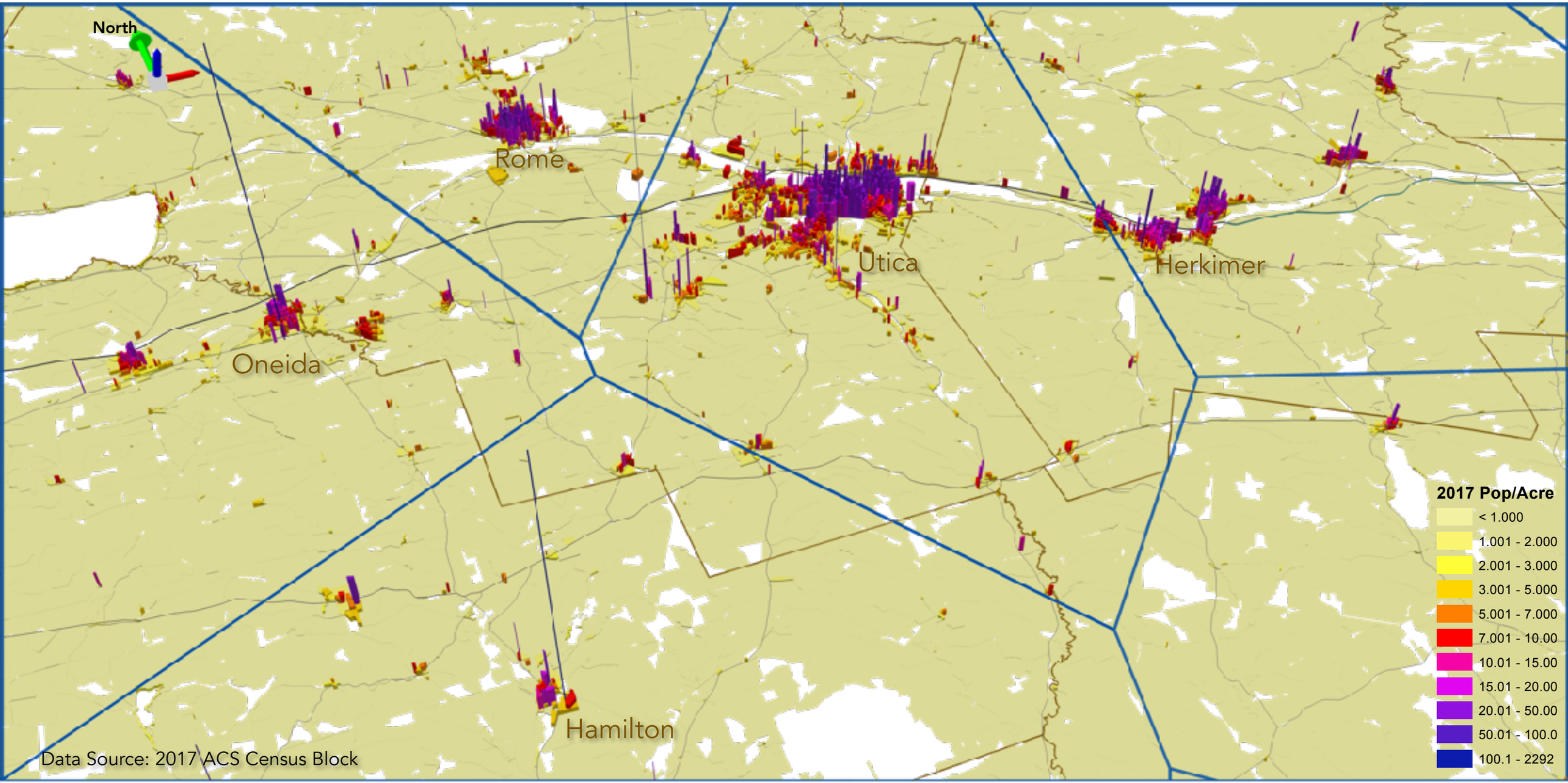


Population Within Hospital Areas

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