

Equity Conscious Tools and Strategies

Adam Palmer, Senior Planner

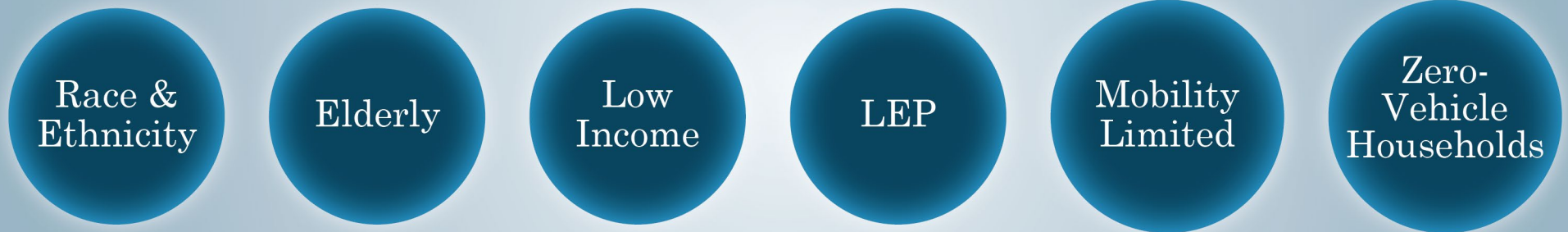


Background

The HOCTC Environmental Justice (EJ) Analysis was developed throughout 2020 and 2021.

Utilized staff with professional backgrounds in transportation planning, human services, GIS, and graphic design.

Analysis Covered Traditional EJ Variables



Analysis Also Reviewed Additional Related Variables

Aggregate Needs

Adverse Health Outcomes

Renter-Occupied Households

Data and Methodology

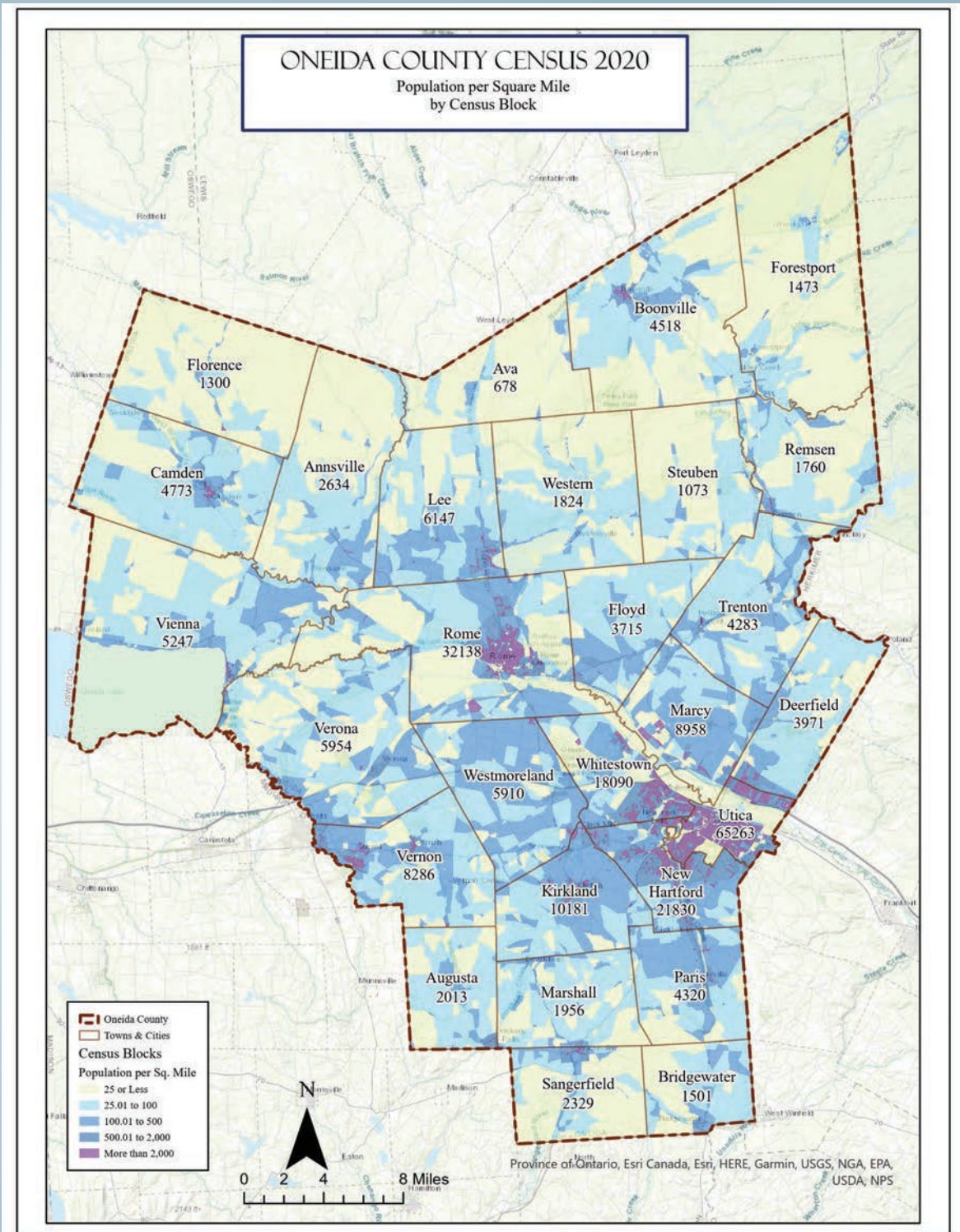
DATA

- ◇ U.S. Census Bureau 5-Year American Communities Survey (ACS)
- ◇ Local Feedback Survey
- ◇ CDC: Local Data for Better Health
- ◇ Existing HOCTC Plans

METHODOLOGY

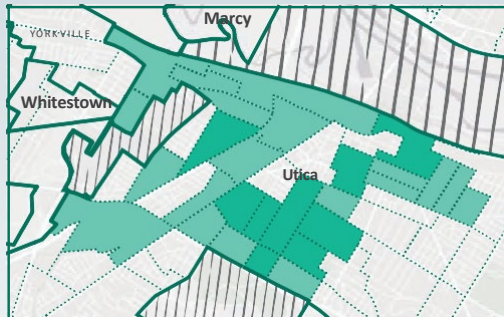
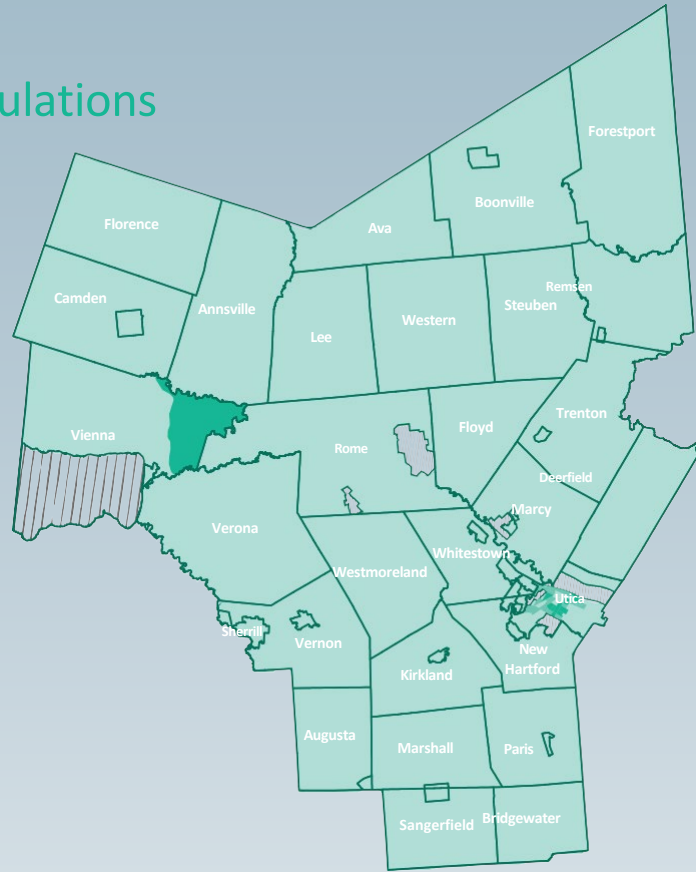
- ◇ One-Sided Significance Testing & Graphic Depiction
- ◇ Trend Analysis
- ◇ Aggregate Needs Analysis

County Overview



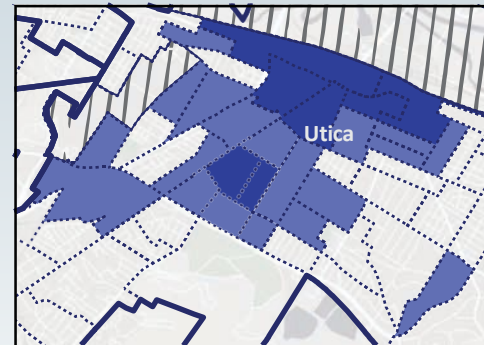
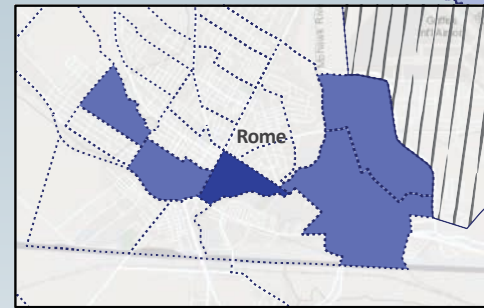
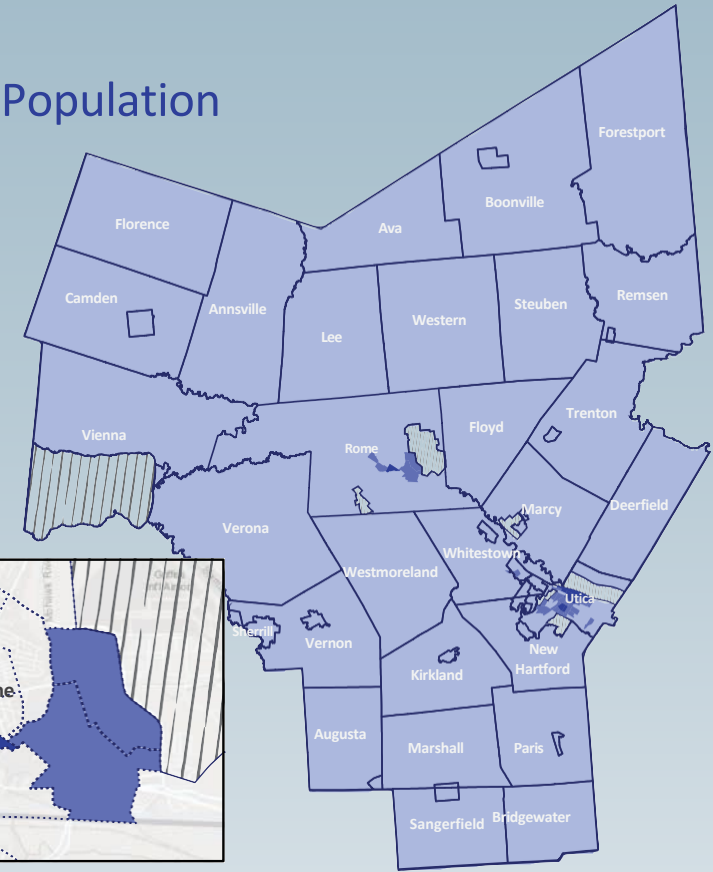
Impact of High Population Areas

Minority Populations



- Very High Concentration
- High Concentration
- Zero Population/State Prison
- Block Groups
- Municipal Boundaries

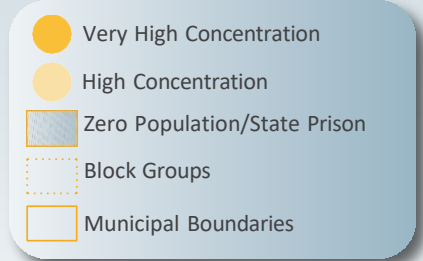
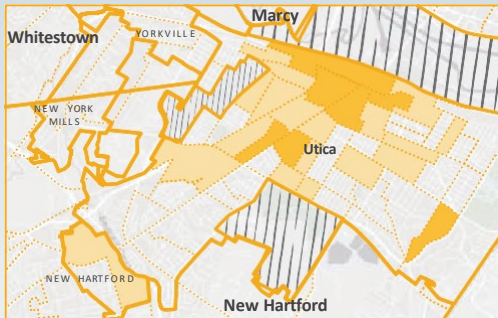
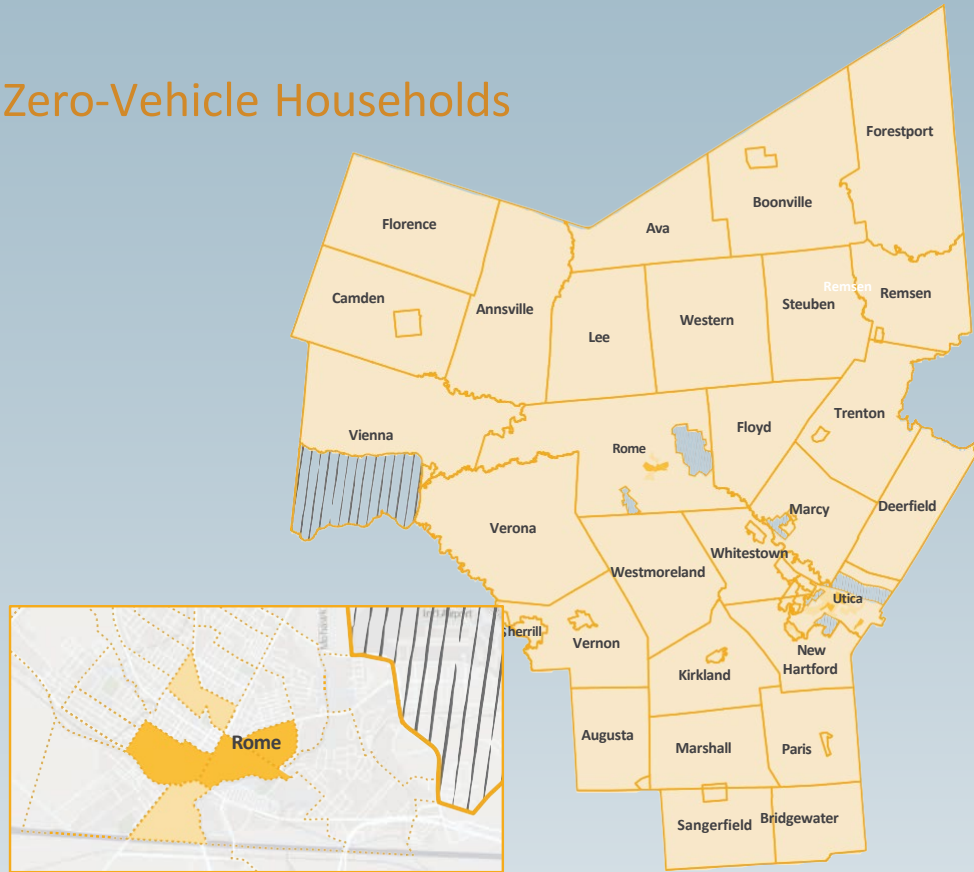
Low-Income Population



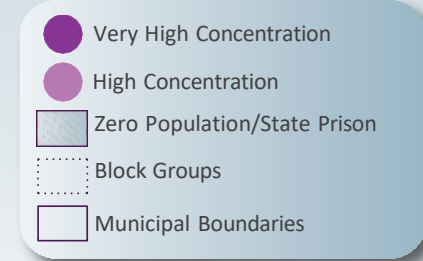
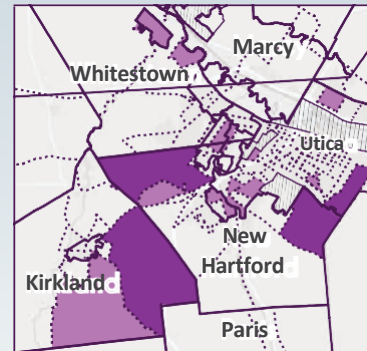
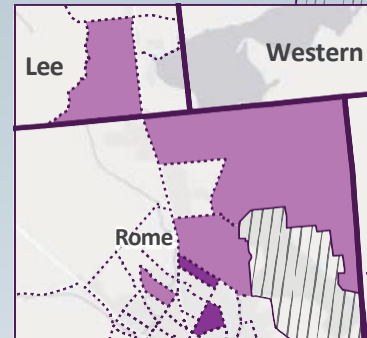
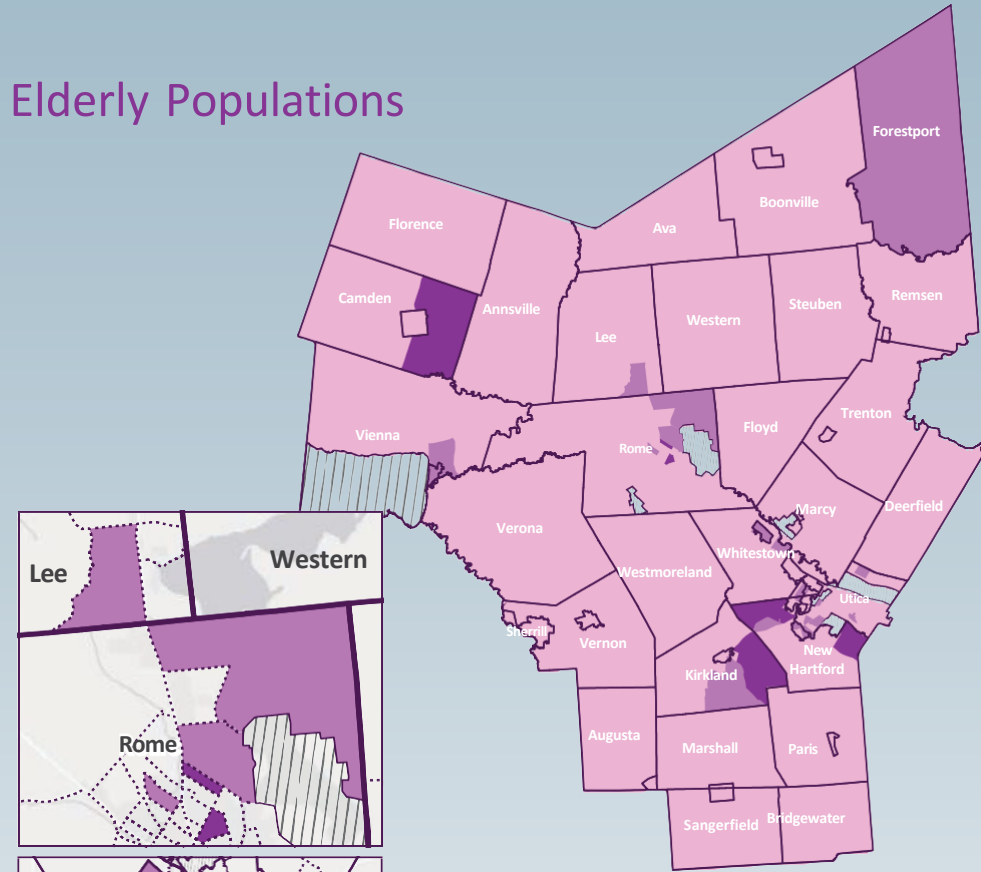
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Impact of High Population Areas

Zero-Vehicle Households

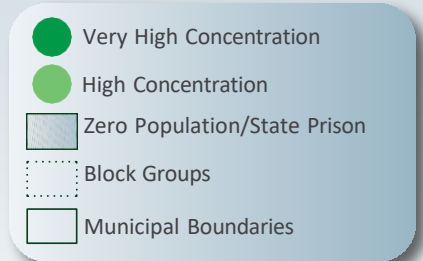
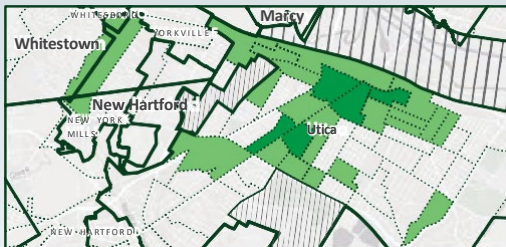
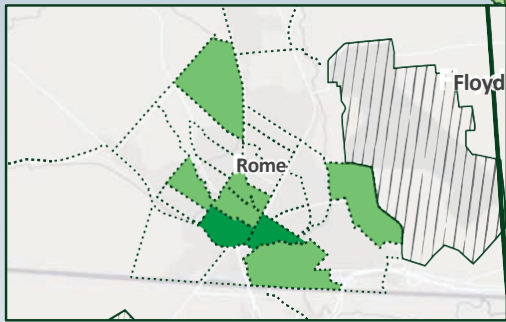
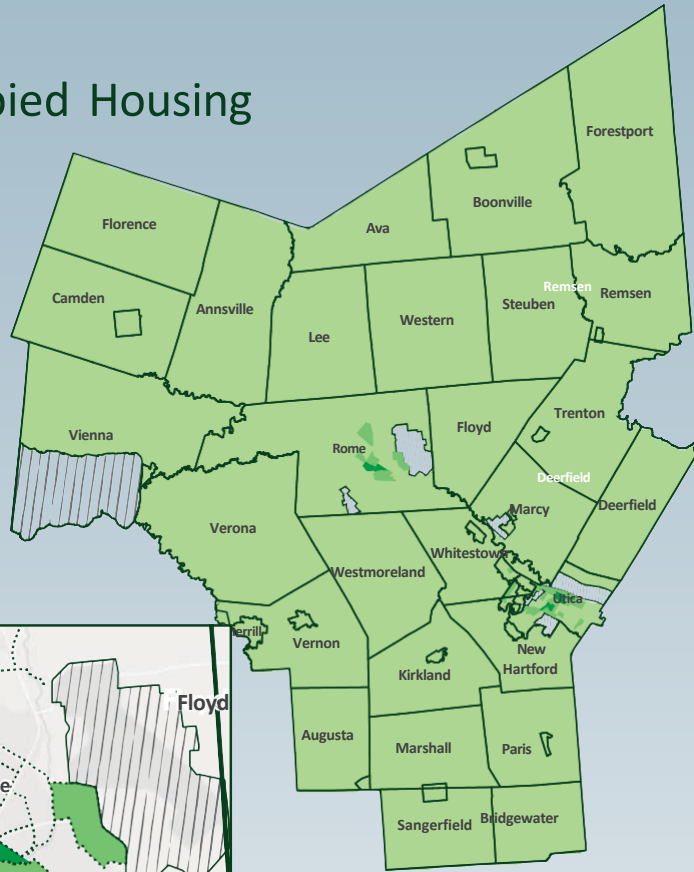


Elderly Populations

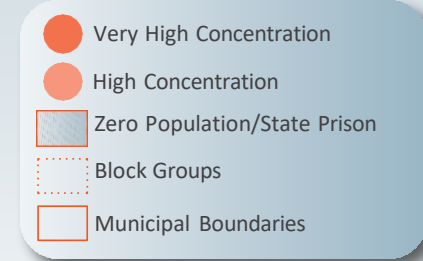
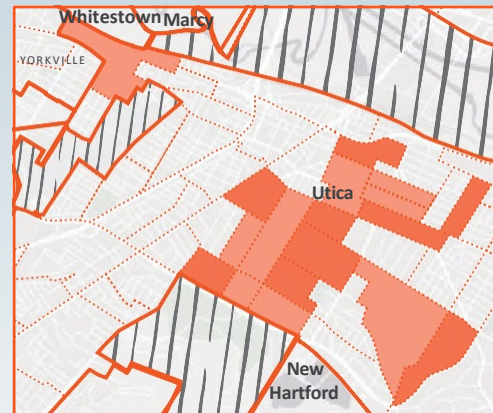
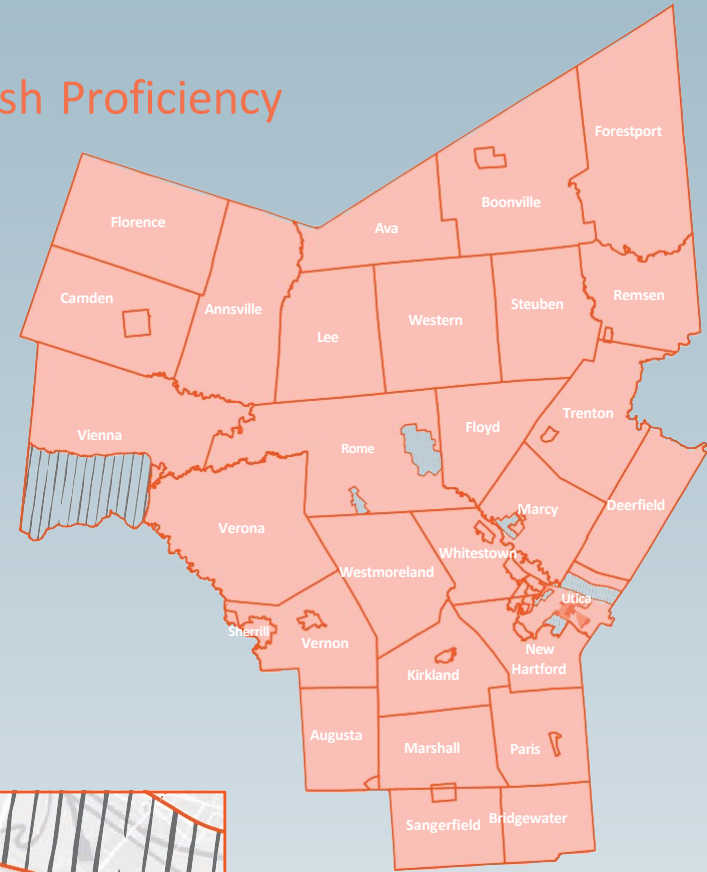


Impact of High Population Areas

Renter-Occupied Housing

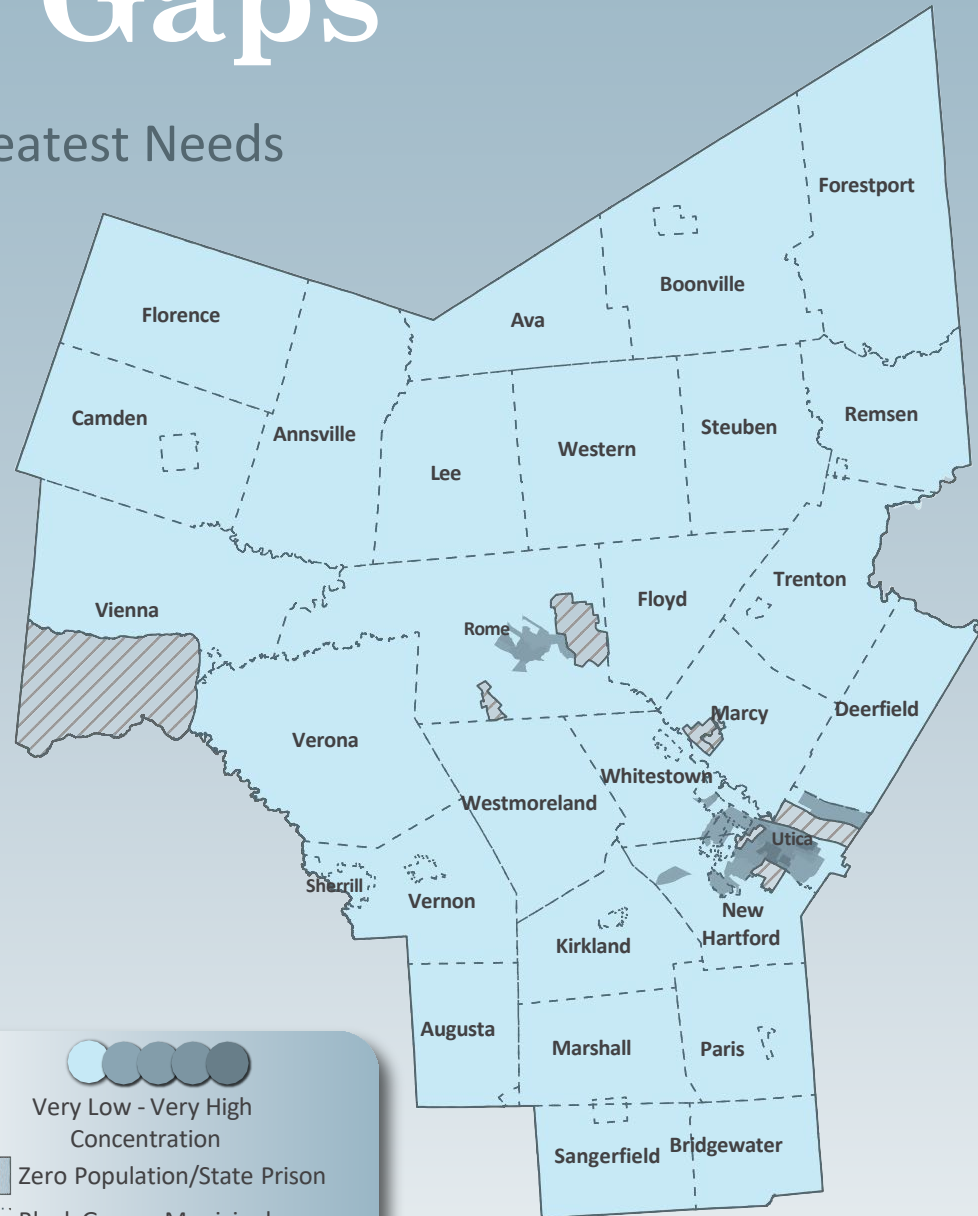


Limited English Proficiency Populations



Addressing the Data Visualization Gaps

Greatest Needs

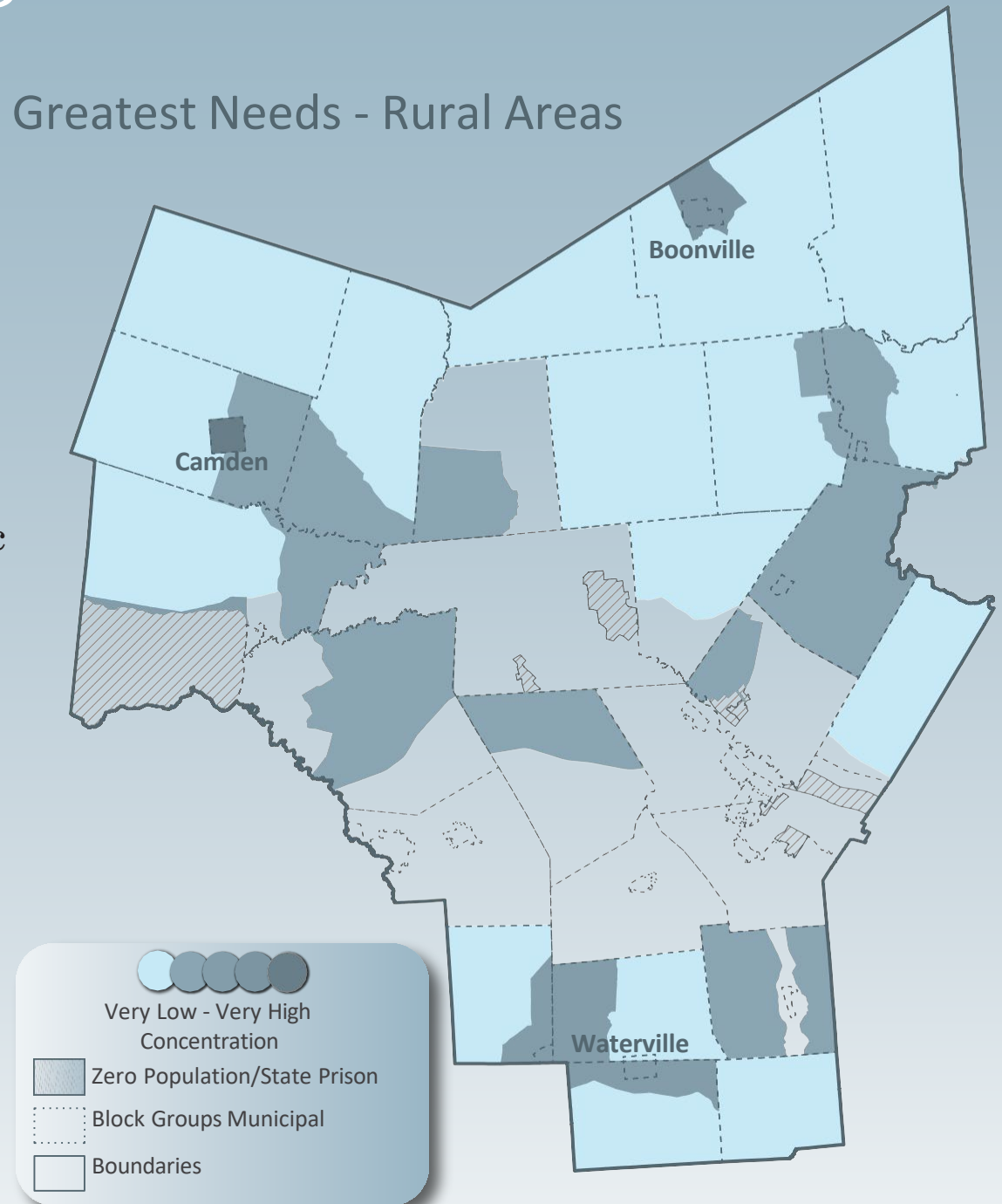


- ◆ Developed an aggregate or “Greatest Needs” analysis
- ◆ Utilized a per capita scoring matrix composed of several EJ variables

Highlighting Rural Needs

Greatest Needs - Rural Areas

- ◆ An aggregate needs analysis was applied using these rural geographic boundaries to highlight additional areas of need
- ◆ 100% rural census tracts were highlighted in a separate analysis



Barriers to Data Analysis

- ◇ Analyses periodically limited to census tract level
- ◇ Aggregated analysis required thorough knowledge of county's demographics and awareness of facilities that may contribute to skewed data

Lessons Learned

- ◇ Organized datasets are key to a successful analysis
- ◇ Involving staff with non-traditional transportation planning backgrounds will bring unique ideas and perspectives
- ◇ Aggregated analyses can be replicated utilizing both transportation and non-transportation related variables