

# ENERGY PLANNING FOR CITY OF URBANA

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## STUDY OBJECTIVES

- Address the spatial distribution of residential energy use in Urbana.
- Identify priority neighborhoods for local energy efficiency program.

## METHODOLOGY

Geocode 16,548 households 2013 electricity consumption data



Aggregate the electricity data to 952 census blocks



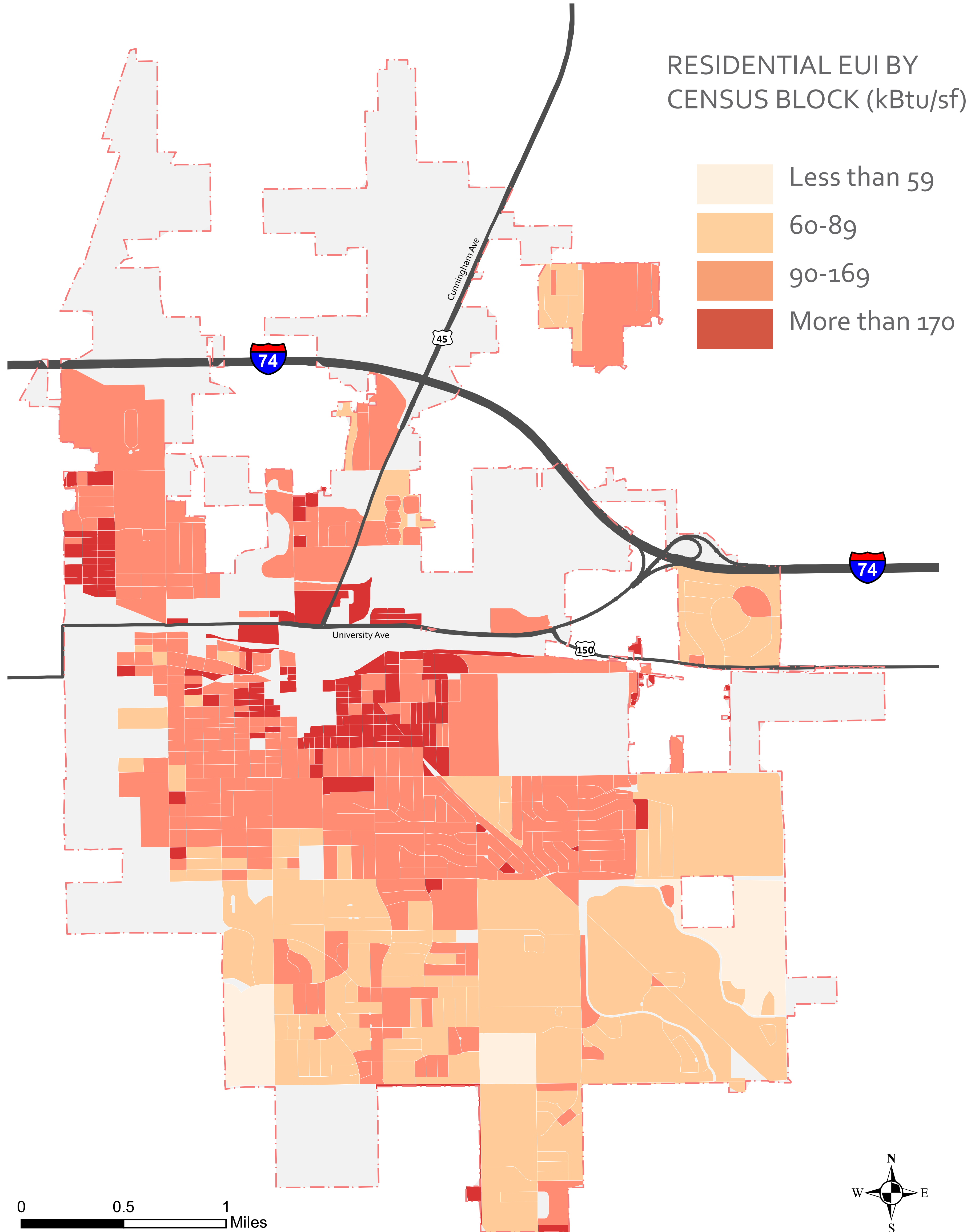
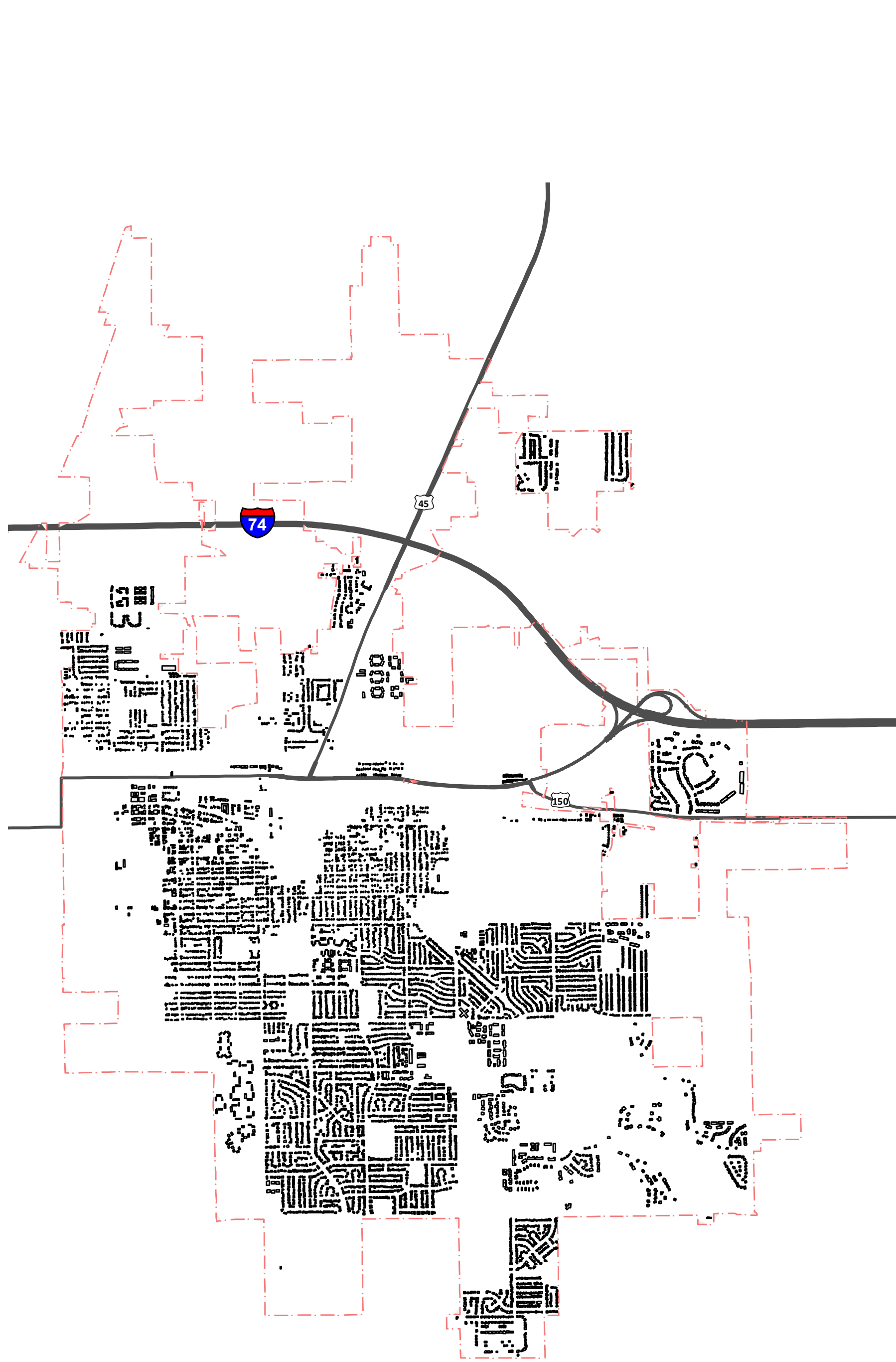
Generate Urbana's residential building footprint from 134 LiDAR datasets



Estimate natural gas consumption based on the regression model (electricity and gross floor area)



Calculate energy use intensity (EUI) of each census block = Total energy (kBtu) / Total gross floor area



## ENERGY CONSUMPTION TREND

