

Urban Growth Modeling in the Nashville MSA

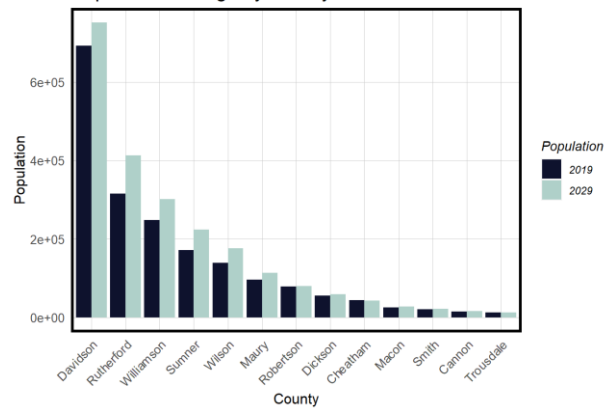


With rapid urbanization and land use change, forecasting development demand is challenging

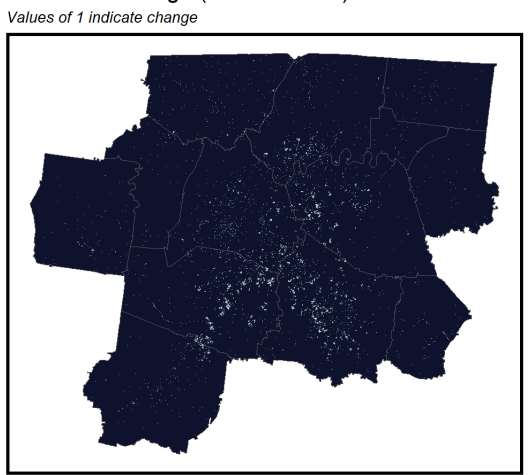
Forecast development demand in 2029 based on land use change between 2011 to 2019

Aggregate land use, demographic, and built environment data into fishnet of Nashville MSA

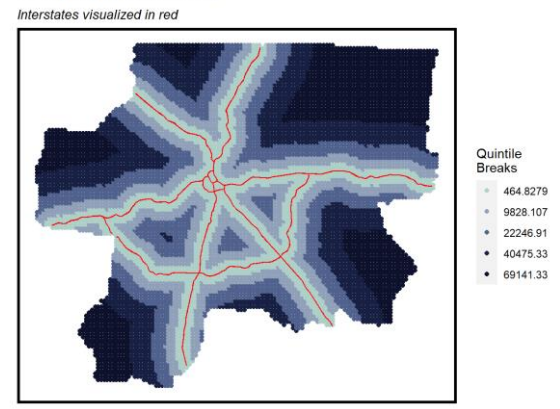
Population Change by County: 2019 - 2029



Land Use Change (2011 to 2019)



Distance to Interstates



SUPPLY

DEMAND

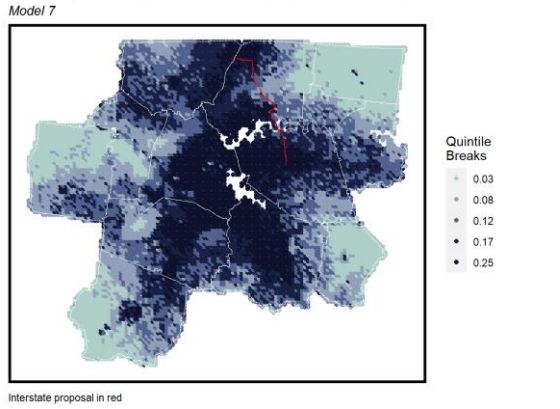
MODELING

Forecast demand based on access to a proposed development scenario

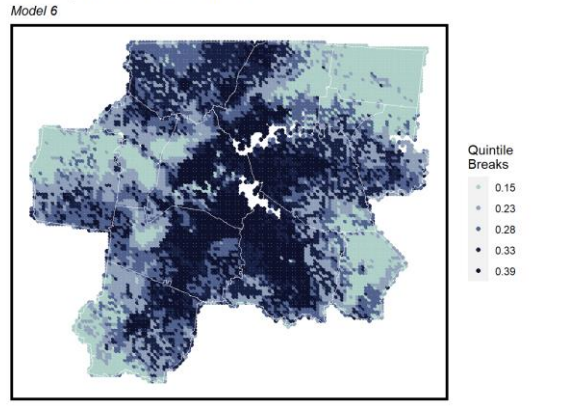
Apply model to probability of change based on population forecasts of Nashville MSA

Measure accuracy and generalizability of development demand predictions

Development Demand in 2029: Predicted Probabilities



Development Demand in 2029



Development Predictions

