

SCAG Model Task Force



ALPACA: AN ECONOMIC EVALUATION ADD-ON FOR SCENARIO PLANNING

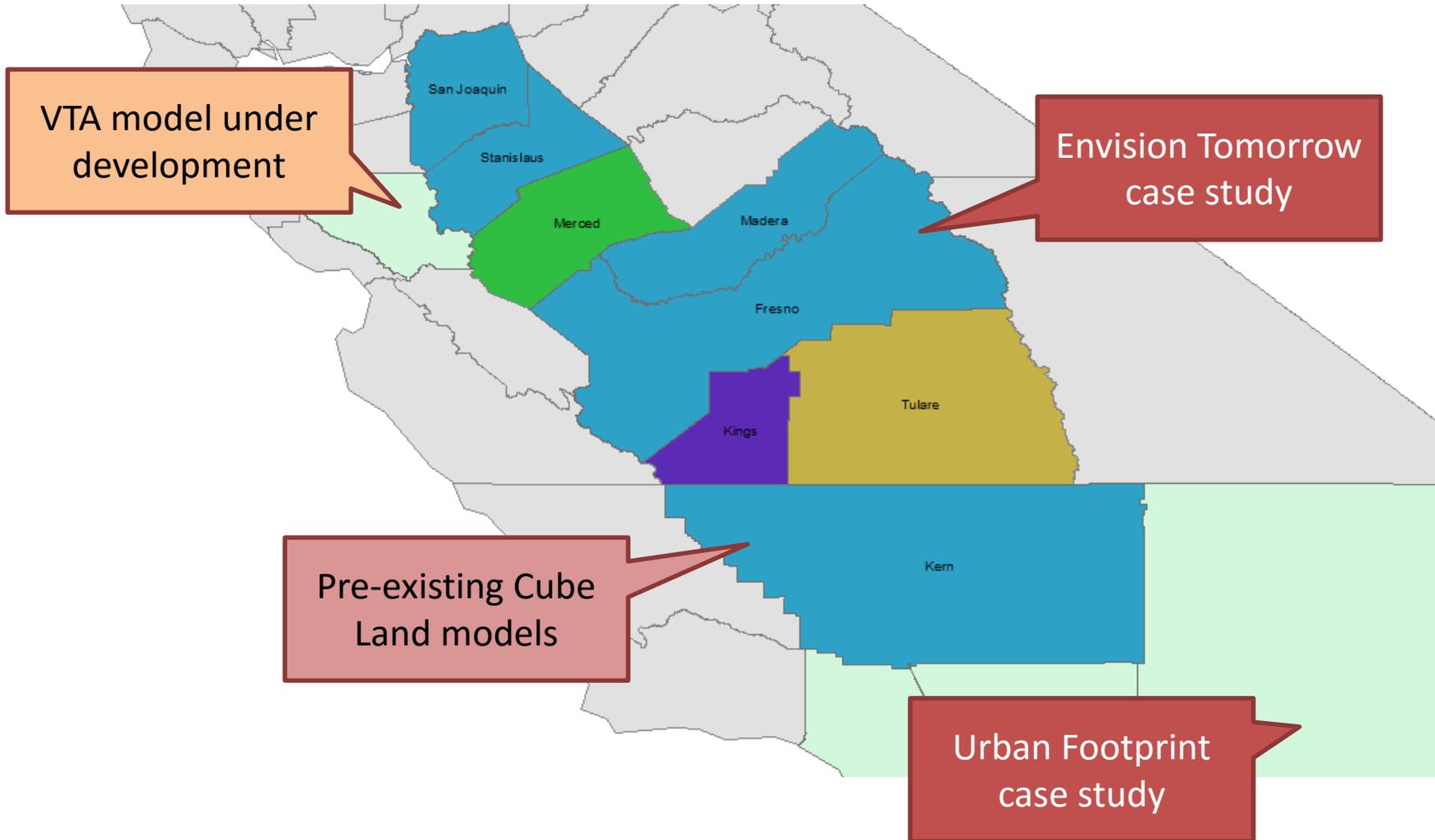
Project Goals

- Integrate bid-rent calculations into scenario planning process (tools & data) across three distinct, independently generated case studies
 - MAPC / CommunityViz
 - FresnoCOG / Envision Tomorrow +
 - SCAG / Urban Footprint
- Investigate effects of new economic measures enabled by these tools on planning process

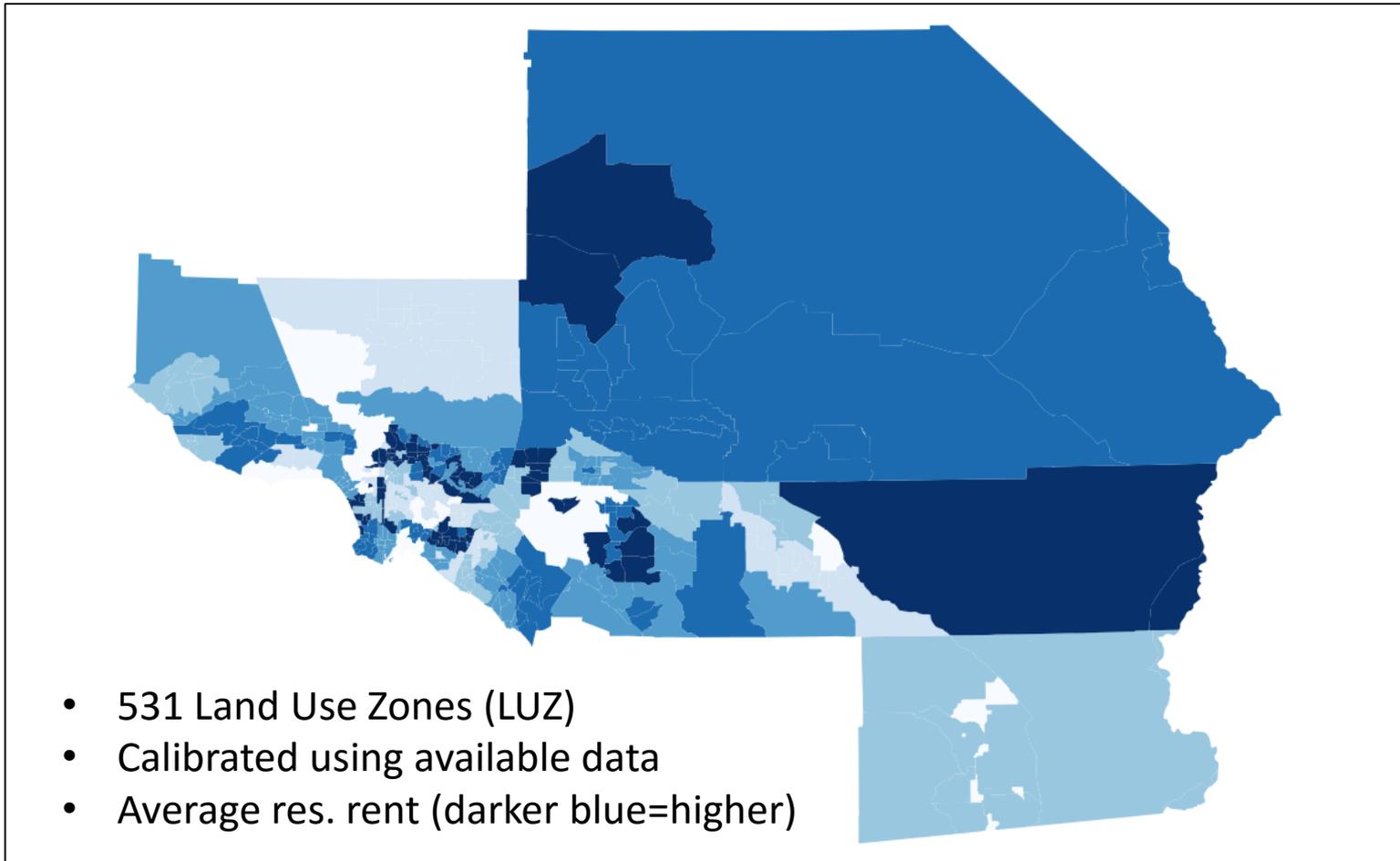
Measures & Topics

- Proposed:
 - Fiscal effects
 - Taxes and subsidies
 - Value capture revenues
 - Affordable housing
 - Income inequality
 - Gentrification
- Others revealed by lit. review & interviews

Bid-Rent Land Models in California



SCAG Cube Land Pilot Study

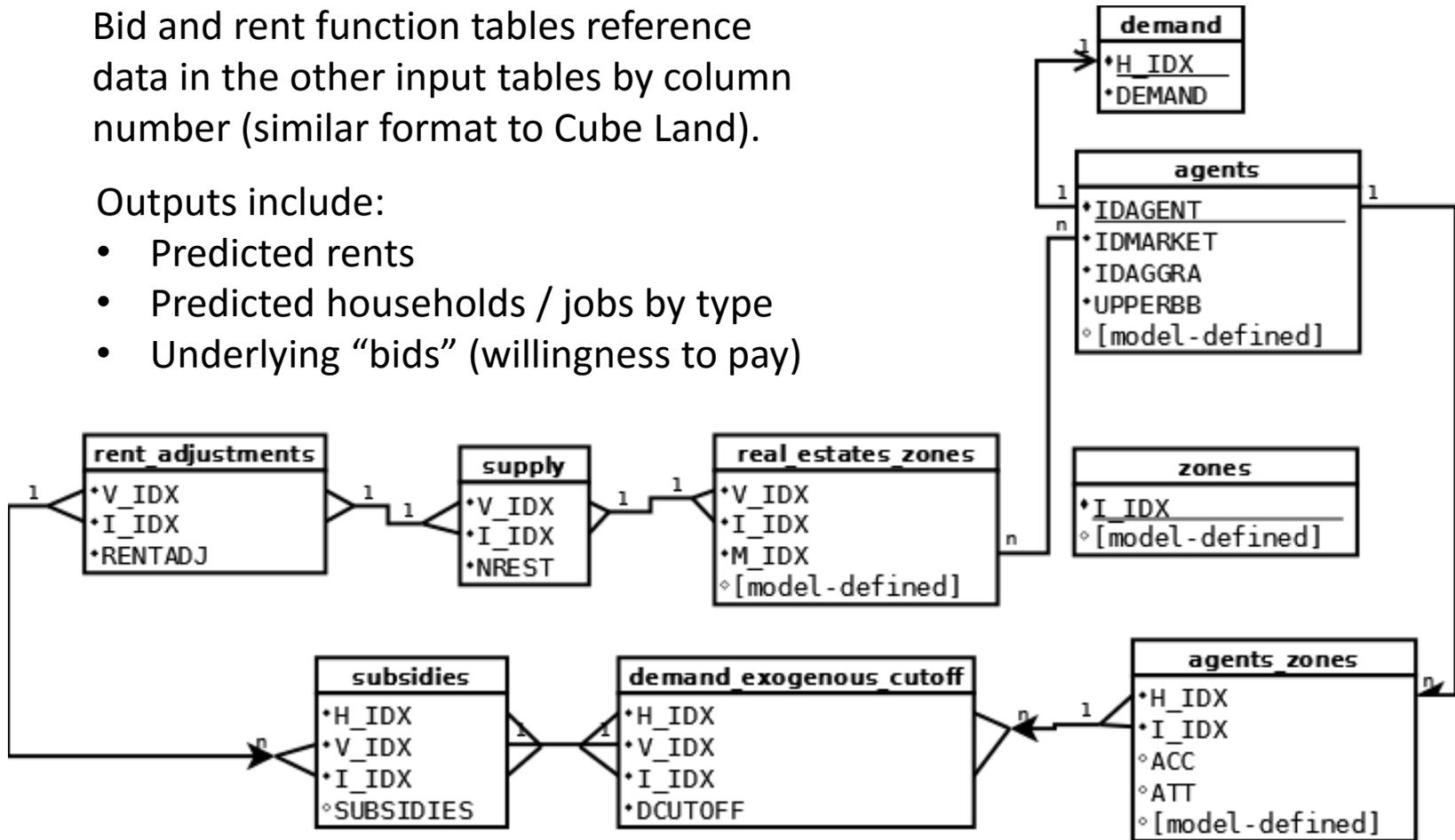


New Bid-Rent Module: “mu-land”

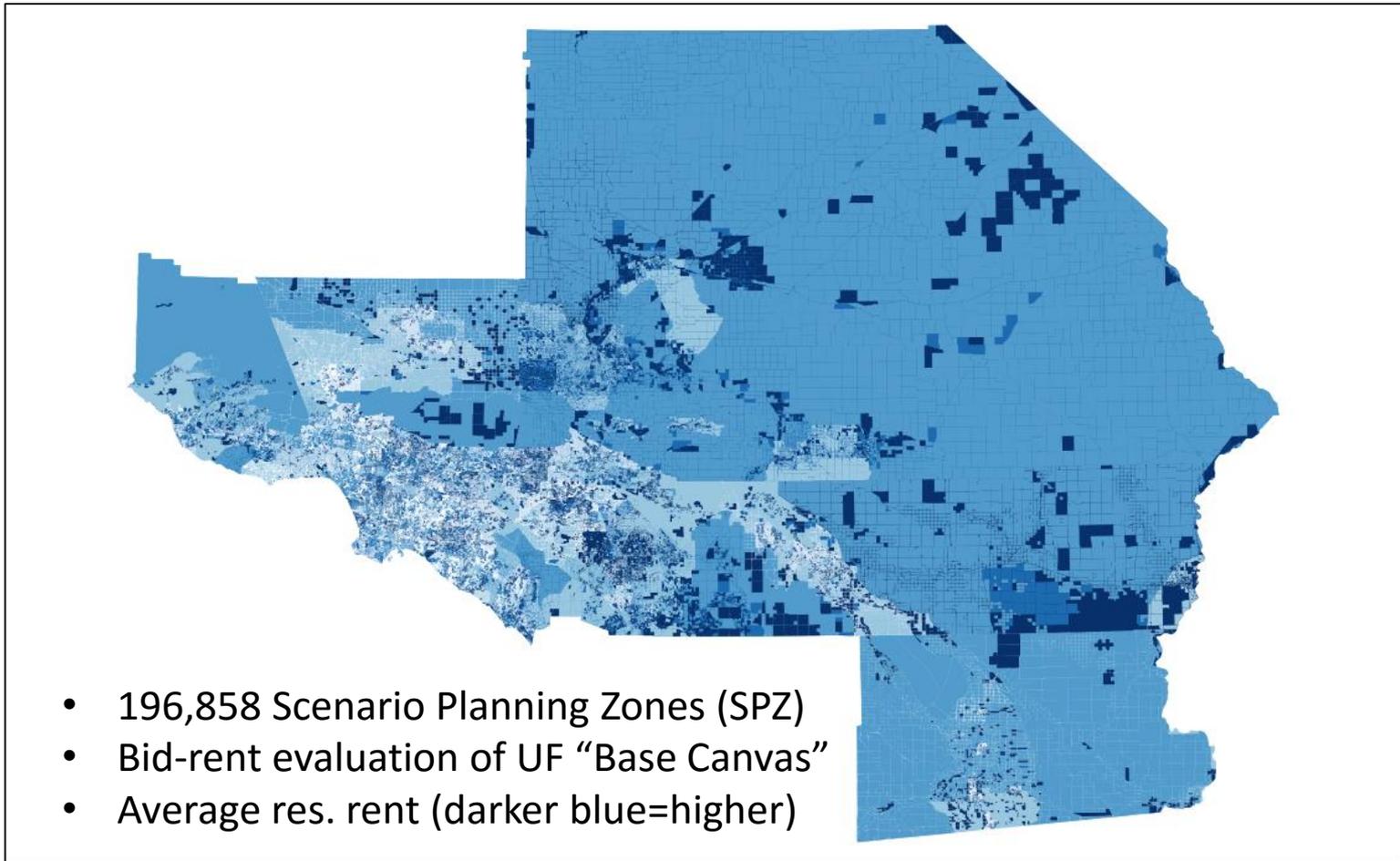
Bid and rent function tables reference data in the other input tables by column number (similar format to Cube Land).

Outputs include:

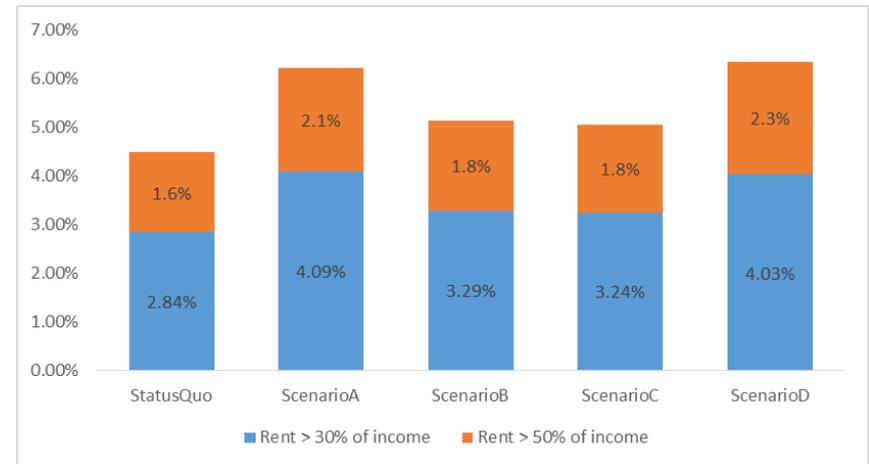
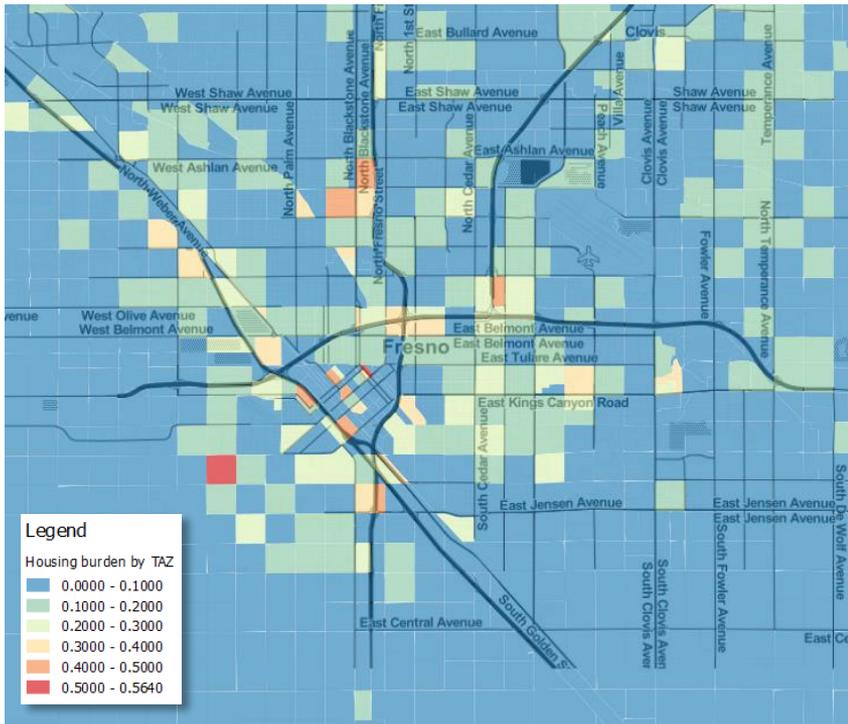
- Predicted rents
- Predicted households / jobs by type
- Underlying “bids” (willingness to pay)



“Mu-land” SCAG Case Study

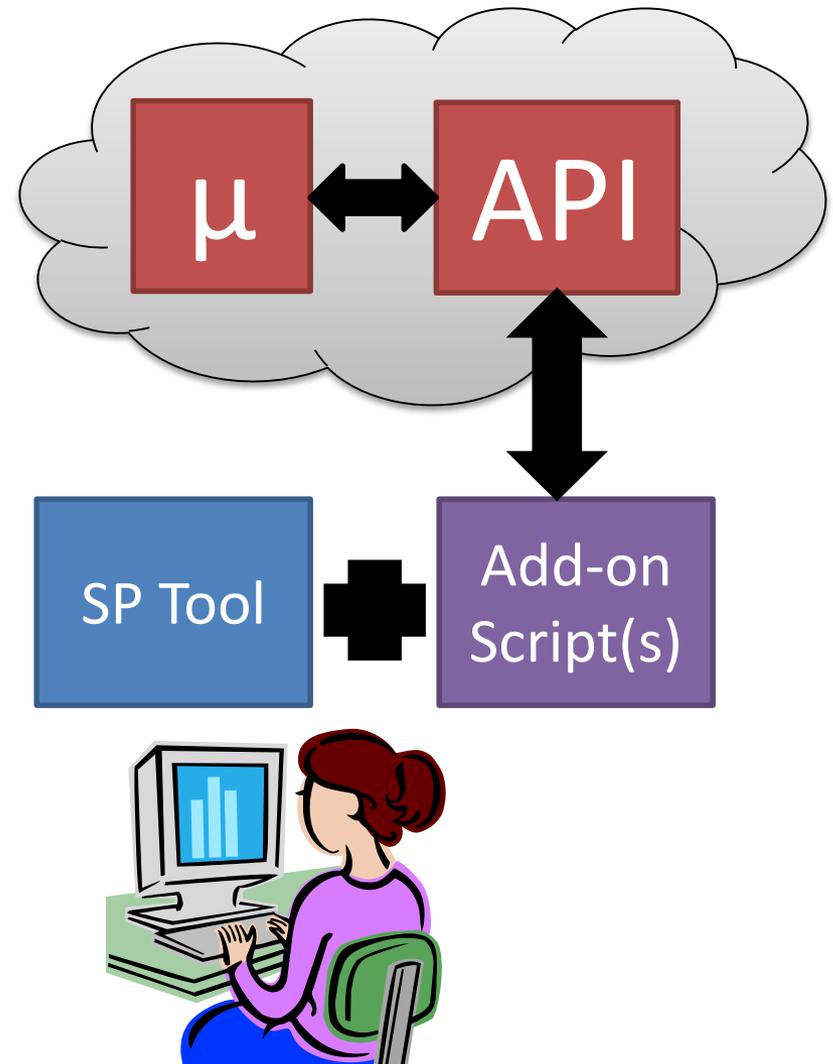


Housing Affordability Case Study

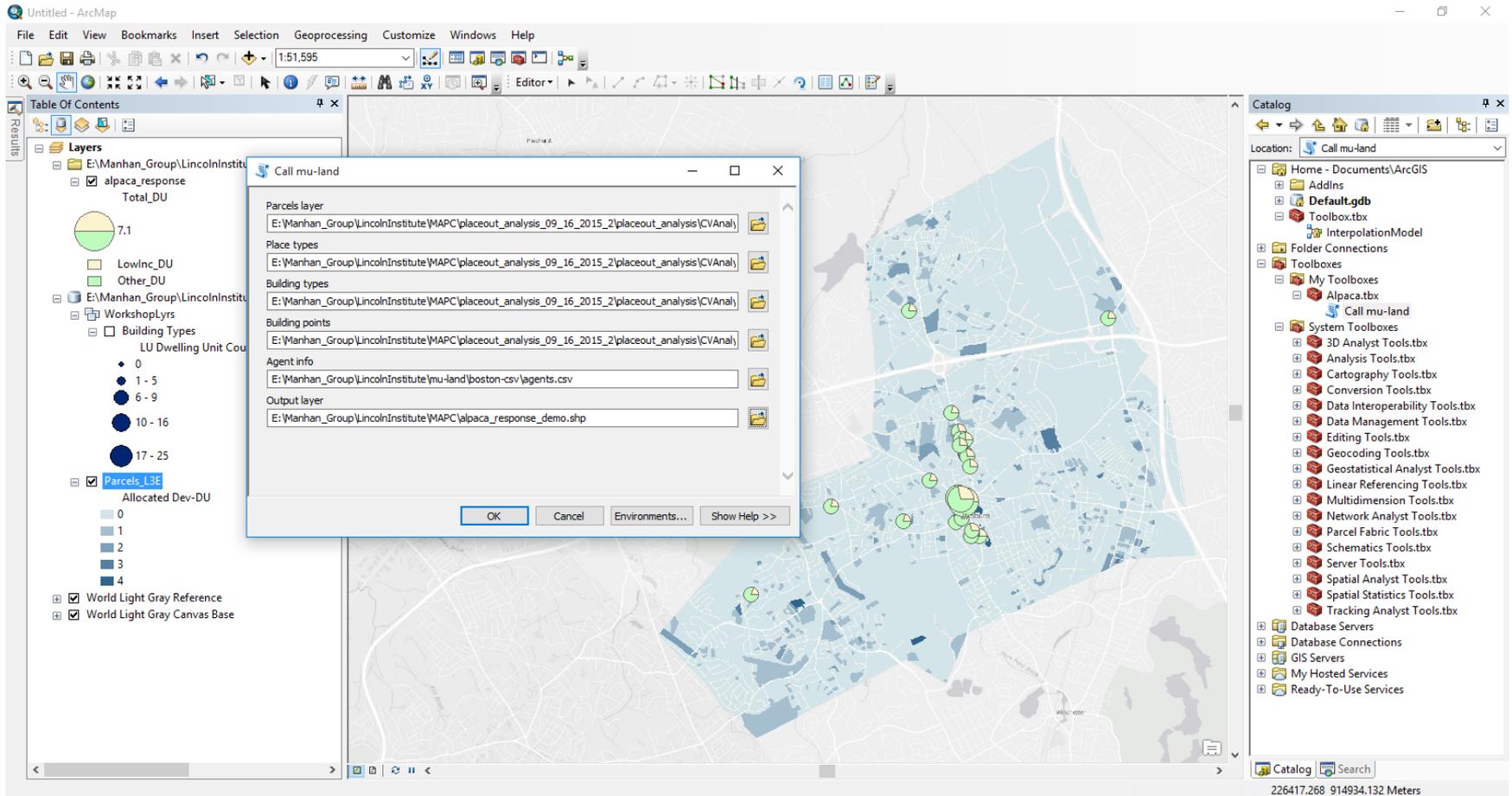


Alpaca Web Service for Mu-Land

- “Wraps” bid-rent functions with a scripting engine to offer API as a service
- Scenario planning tools (such as Urban Footprint) could call this API & get info



Integration with ArcGIS



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The logo for Manhan Group, featuring the words "MANHAN" and "GROUP" in a bold, blue, sans-serif font. The text is positioned in the bottom left corner of the slide, with a decorative blue abstract shape behind it.

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