

Targeting maps:  
An asset-based approach to geographic targeting

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**ONLINE APPENDIX**  
**(not for publication)**

This online appendix provides additional details to complement the information and analysis provided in the main paper.

Table 1 lists the number of administrative units of each type exist and the average and median number of households in each unit, for the rural areas of Uganda only.

Table 2 lists the control variables used in the first stage estimation.

Table 3 reports for each type of administrative unit, the percentage of all units represented in the survey and community census.

Figure 1 complements Table 3 and shows the geographic distribution of the survey data.

Figure 2 shows the poverty map generated via the targeting maps methodology.

Figure 3 visually explores the relationship between population density and marginal returns to road access using maps and finds similar results. The first panel maps the estimated average marginal benefits to road access (regardless of significance); the second panel is a map of population density. The patterns in the two panels are similar.

Table 1: Hierarchy of Ugandan administrative units and associated number of households

Administrative unit	Total units	Number of households per unit	
		mean	median
District	56	90,797	79,024
County	163	31,194	27,650
Sub-county	958	5,308	4,584
Parish	5,234	971	818

Notes: Data come from the census and include only rural households.

Table 2: Control variables for first stage regression

Number of household members in school  
Television  
Radio  
Fixed phone  
Postal address  
Household's living quarters are in the main part of a house  
Household's living quarters are in a room of a house  
Housing unit has iron roof  
Housing unit has thatch roof  
Housing unit has burnt brick walls  
Housing unit has unburnt brick and mud walls  
Housing unit has mud walls  
Housing unit has a cement floor  
Housing unit has a earth floor  
Household lives in a detached house  
Household lives in a tenement  
Household cooks with charcoal  
Household cooks with firewood  
Household lights with electricity  
Household lights with lantern  
Household lights with tadooba  
Household drinks water from a tap  
Household drinks water from a borehole  
Household drinks water from a well  
Household drinks water from an open source  
Household uses a private covered pit for a toilet  
Household uses a shared covered pit for a toilet  
Household uses an uncovered pit for a toilet  
Household uses the bush for a toilet  
Household bathes inside  
Household bathes in outside built structure  
Household bathes in outside makeshift structure  
Household's kitchen is inside  
Household's kitchen is outside built structure  
Household's kitchen is outside makeshift structure  
Sub-county borders a lake  
Sub-county borders Lake Victoria

Table 3: Geographic coverage of data

Administrative unit	Survey	Community census	Census
Parish	11%	98%	100%
Sub-county	56%	100%	100%
County	94%	100%	100%
District	98%	100%	100%

Figure 1: Spatial distribution of household survey data coverage

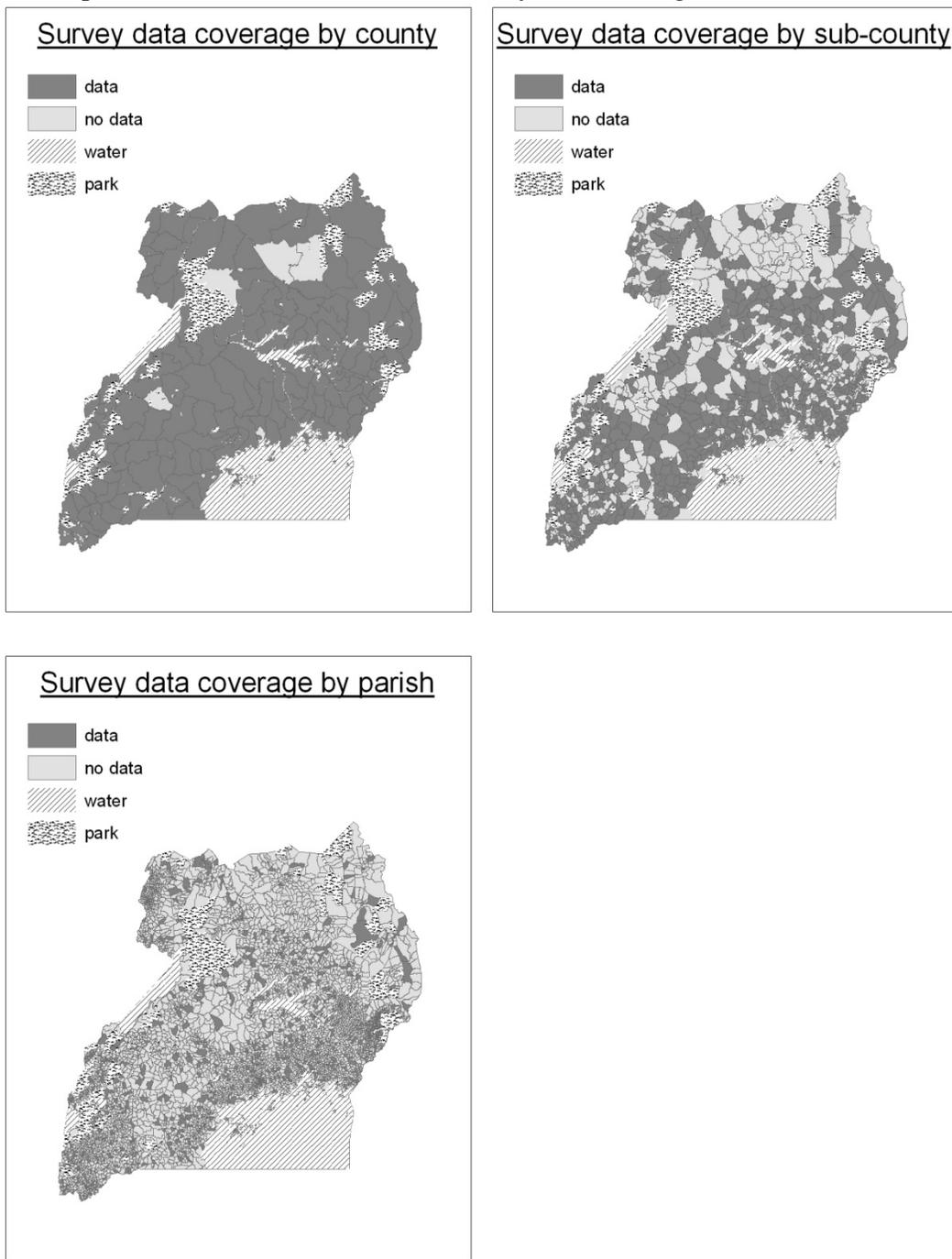


Figure 2: Poverty map created using targeting map method

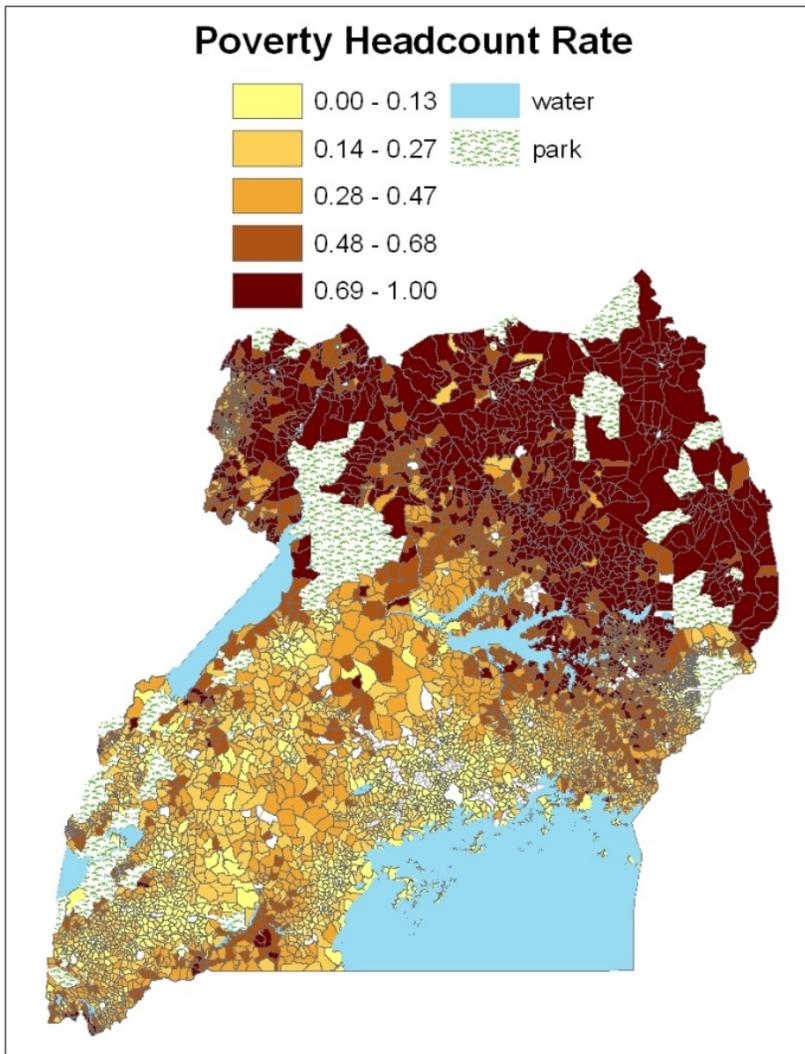


Figure 3: Estimated average marginal benefits to road access and population density

