Mapping the Poor in Ghana: A Geospatial Multidimensional Poverty Index Approach

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Abstract : Globally, especially in developing nations, governments persistently prioritize poverty alleviation and eradication as key objectives. Numerous international organizations also acknowledge the urgent need to reduce poverty levels over the next decade, making poverty reduction a critical global issue. During the past three decades, the government of Ghana has developed and subsequently implemented several development policy frameworks as part of its poverty reduction programmes. In order to reduce and alleviate poverty, one of the parameters that play a key role is statistics on poverty. However, in many developing countries such as Ghana such statistics do not exist thus it makes poverty alleviation intervention a bit scattered and untargeted. Due to this, there exist a major problem presently; that is reaching the poor to address their specific needs. In response to this challenge, there is therefore the need to produce poverty map to assist policy makers. This research therefore sought to use GIS to map out poverty endemic areas by displaying the spatial dimensions of poverty and identify the poverty pockets across the country adopting a Multidimensional (Non-Monetary) Poverty Index approach. Ten indicators which were categories under three dimensions were used. Results of the study showed that across Ghana, a considerable percentage of household are deprived in several non-monetary poverty indicators. Analysis of these indicators revealed wide disparities by region. Generally, wide disparities exist between the proportion of households deprived in the three northern regions and their counterparts in southern Ghana.

Keywords : GIS, multidimensional poverty index, indicator, dimension, poverty
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