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Geospatial modelling for rural electrification in the Global South

Electrification rates in rural areas of Nigeria are still low in many regions. Geospatial methods allow a transparent option to elaborate different approaches to spatial electrification planning and may improve planning of electrification and implementation strategies. The high spatial resolution on village level is the first step for successful implementation of electrification plans, followed by an assessment of the status of electrification and a demand analysis. Building on that the economics of different electrification options can be evaluated and a least-cost rural electrification plan can be assigned. Geospatial analysis and visualization support decision making and provide options to track the progress of electrification efforts.