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RESEARCH INTERESTS

- Slum and urban health
- Spatial ontologies
- Social network analysis
- Exponential random graph models
- Dynamic modeling of HIV transmission

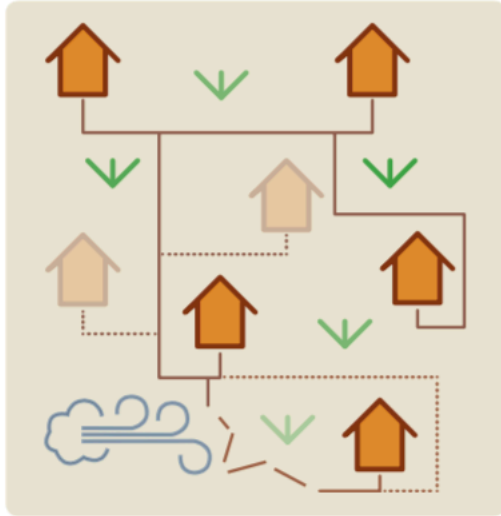
CURRENT PROJECTS

- Developing mapping methods that utilize volunteered geographic information and agent-based stochastic simulation to map dynamic urban spaces in least developed countries
- Exploring bridging as a potential for sustaining HIV epidemics by modeling sexual ties between men who have sex with men (MSM) and women in Seattle, Washington State
- Population size estimation of men who have sex with men in Kunming City, Yunnan Province, China, by using online respondent driven sampling methods

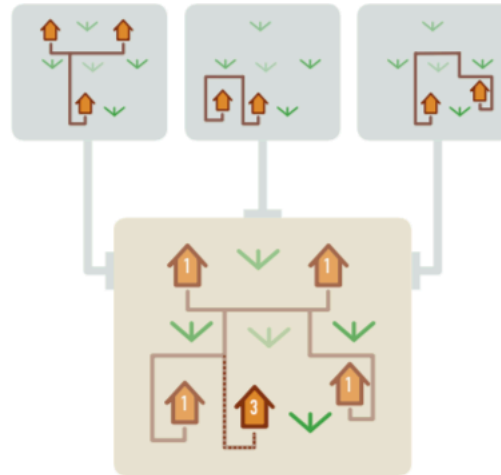
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Unplanned settlements in least developed countries experience frequent structural change caused by migration and adverse weather events affecting travel paths.



Merged **travel trajectories** from volunteered geographic information (**VGI**) can be leveraged to create maps that show frequented locations and paths in unmapped spaces.



Using interdisciplinary methods from geography, public health, and mathematical modeling, **WeMap** aims to address these challenges by mapping pathways within unplanned villages in Malawi using VGI.



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