
Filming the Unseen: Building Malaria Out by Addressing Mosquito Flight

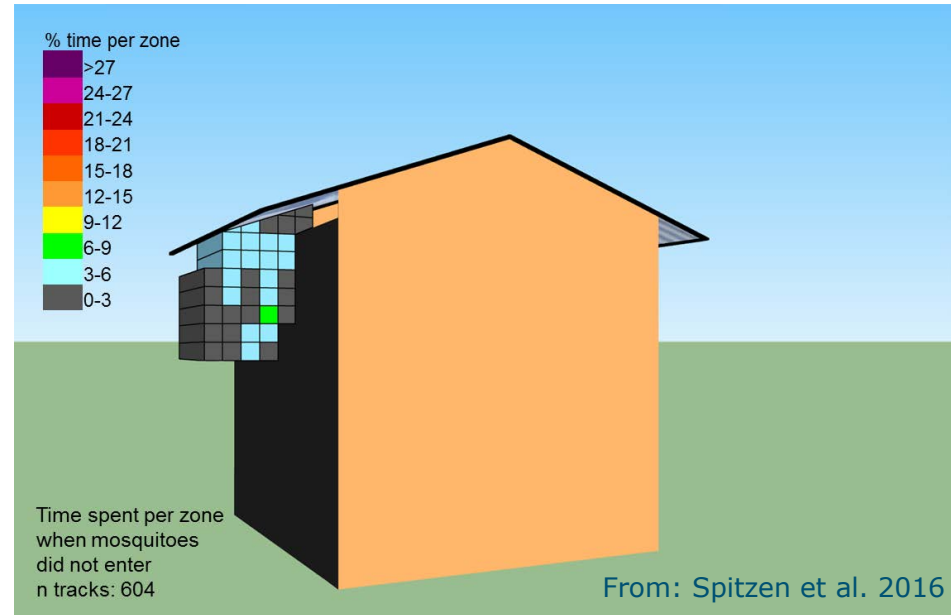
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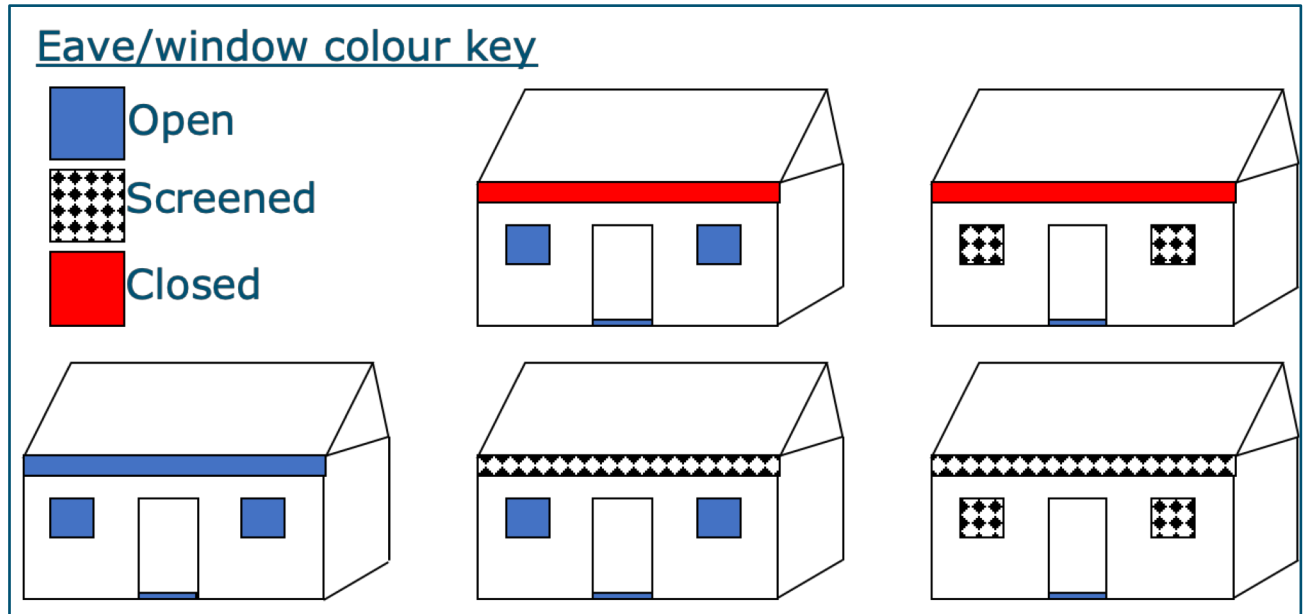
Objectives

1. Characterize mosquito flight paths near a house
2. Determine the effect of eave closure or screening on these mosquito flight paths, including house entry



Methods

- 1 experimental house inside screen house; 5 treatments
- *Anopheles gambiae* colony; 500 mosquitoes released per night
- 3-D tracking from 20:00 - 06:00; 6 nights per treatment



Implications

- Information about the flight behavior of mosquitoes when approaching a house, and how this leads to finding and entering house entry points
 - (e.g. flight trajectories, contact time, time spent near eave, proportion of mosquitoes and entry attempts that lead to successful entrance)
- Lead to optimized designs for house improvements that will consequently reduce malaria burden through reduced vector-human contact