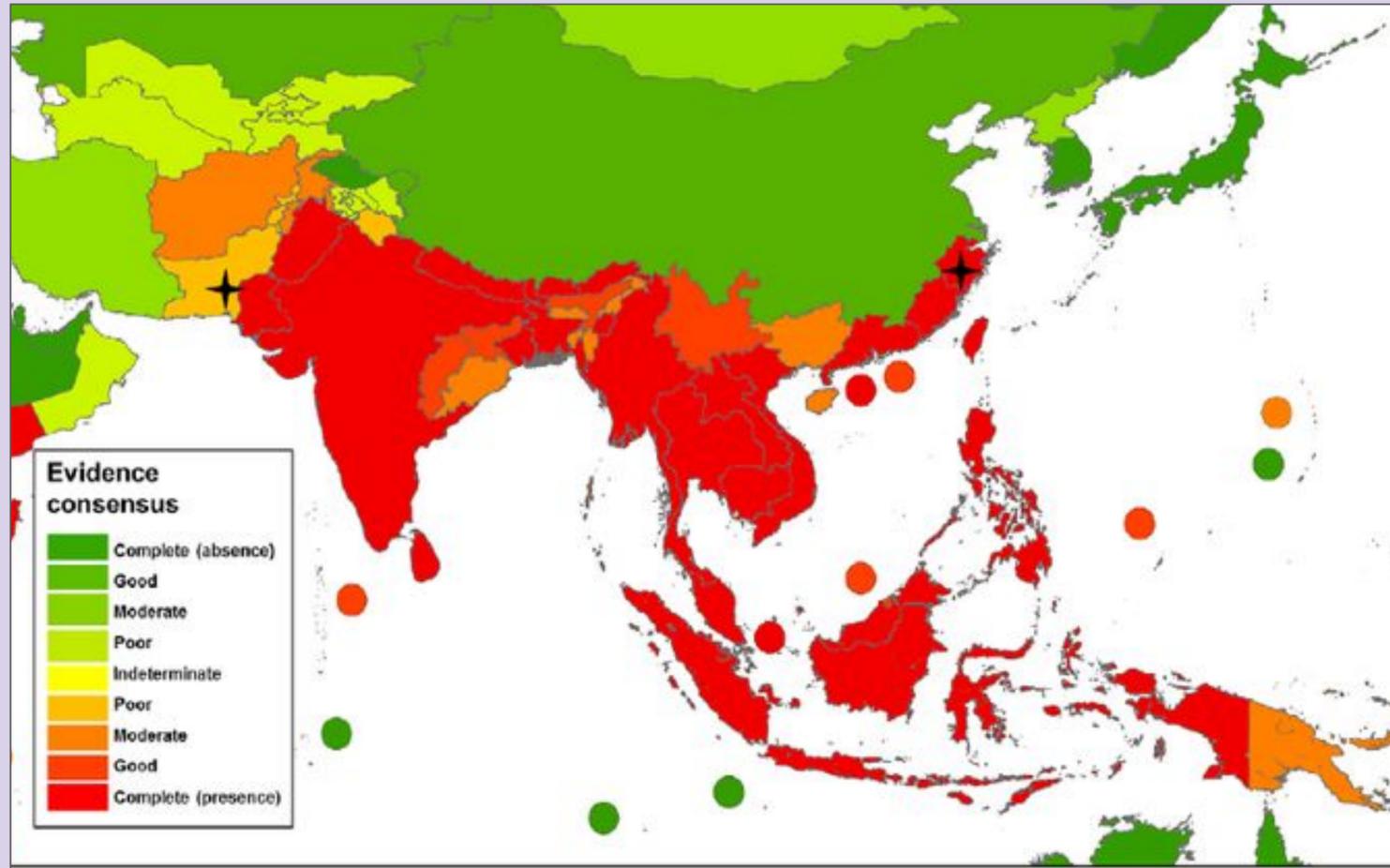


Which Dengue Fever diagnostic technologies show the most promise for wide-scale use in Southeast Asian island nations?



via PLOS: Refining the Global Spatial Limits of Dengue Virus Transmission by Evidence-Based Consensus

How is this unique?

Previous research largely focuses on the sensitivity and specificity of dengue detection tools, however I will also be looking at scalability and real-world feasibility for these technologies, bringing a public health perspective to this issue.

Why is this important?

Southeast Asia is a severely Dengue-endemic region, and island nations in this region specifically tend to struggle with early and accurate detection due to:

- Limited healthcare infrastructure
- Difficult Geography
- Economic Constraints
- Cultural Differences

What kind of data will I be collecting?

I will be working with qualitative data and using pre-existing quantitative data.

- **Quantitative:** Sensitivity and specificity percentages from clinical studies of each diagnostic tool
- **Qualitative:** Analysis of case studies, government health reports, cost comparisons, training and deployment requirements,