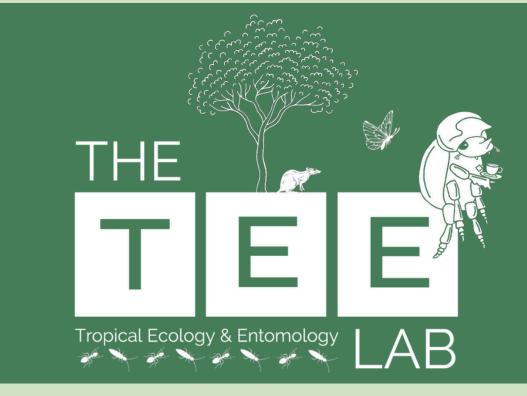
IDENTIFYING KNOWLEDGE & CAPACITY GAPS IN

SOUTHEAST ASIAN INSECT CONSERVATION

Xin Rui Ong¹, Belle Tan¹, Charlotte H. Chang², Nalini Puniamoorthy³ & Eleanor Slade¹

but...



BACKGROUND

Regional monitoring of insect populations and conservation status assessments enable the inclusion of insects in global conservation priorities and the development of targeted conservation actions tailored towards specific regions.

Such assessments require

- Proper taxonomic identifications
- Long-term empirical observations
- Data on population trends & dynamics

Insects in Southeast Asia

- High proportion of undescribed species
- Lacking capacity for long-term monitoring
- Lacking data on populations & research trends

OBJECTIVES

- Highlight taxonomic & locality biases in insect records, studies & social media perceptions
- Identify knowledge & capacity gaps in SEA insect research
- Determine extent of cross-boundary collaboration efforts



CURATED DATASETS

Species Occurrences*

 Geographic coordinates

Insect order



Insect Studies*

- Study insect order
- Study country
- Research topic



- Author position
- Host institution country

Funding*

- Funding type
- Organisation country

'#conservation' posts*

- Taxonomic group
- Sentiments

Data Sources





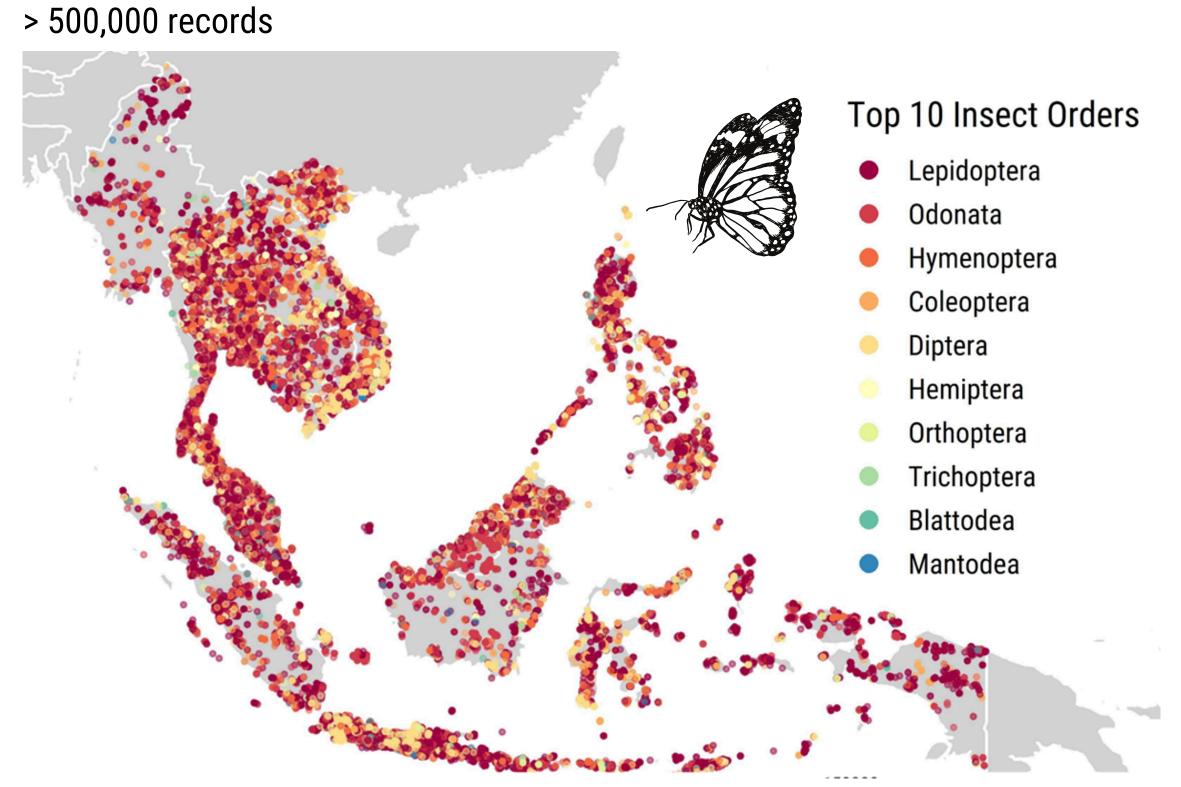
Clarivate Web of Science



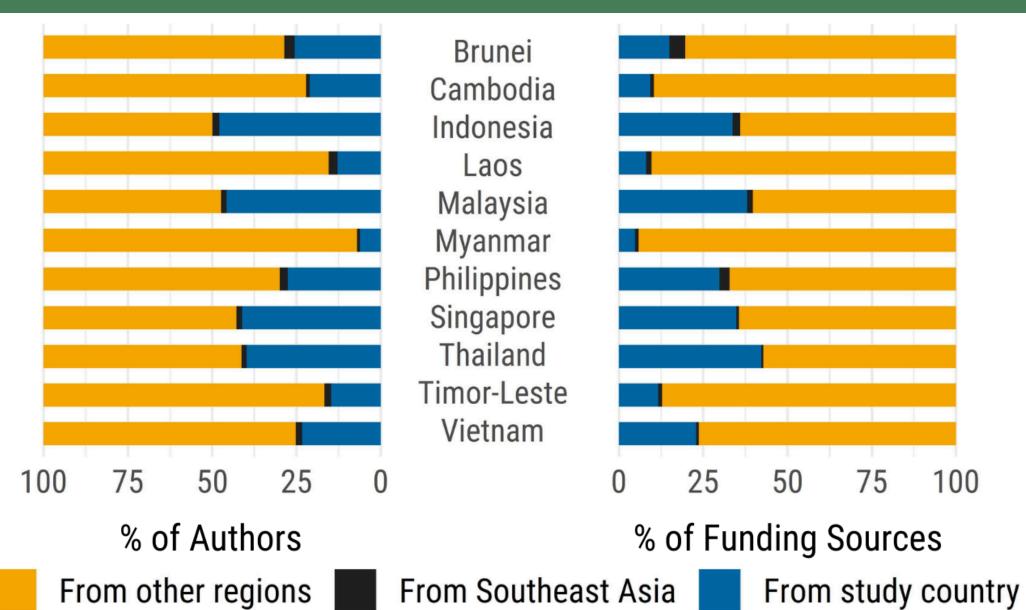
*Southeast Asian records & retrieved from 2000 to 2023; +Global '#conservation' posts retrieved from 2006 to 2022.

IDENTIFIED KNOWLEDGE & CAPACITY GAPS

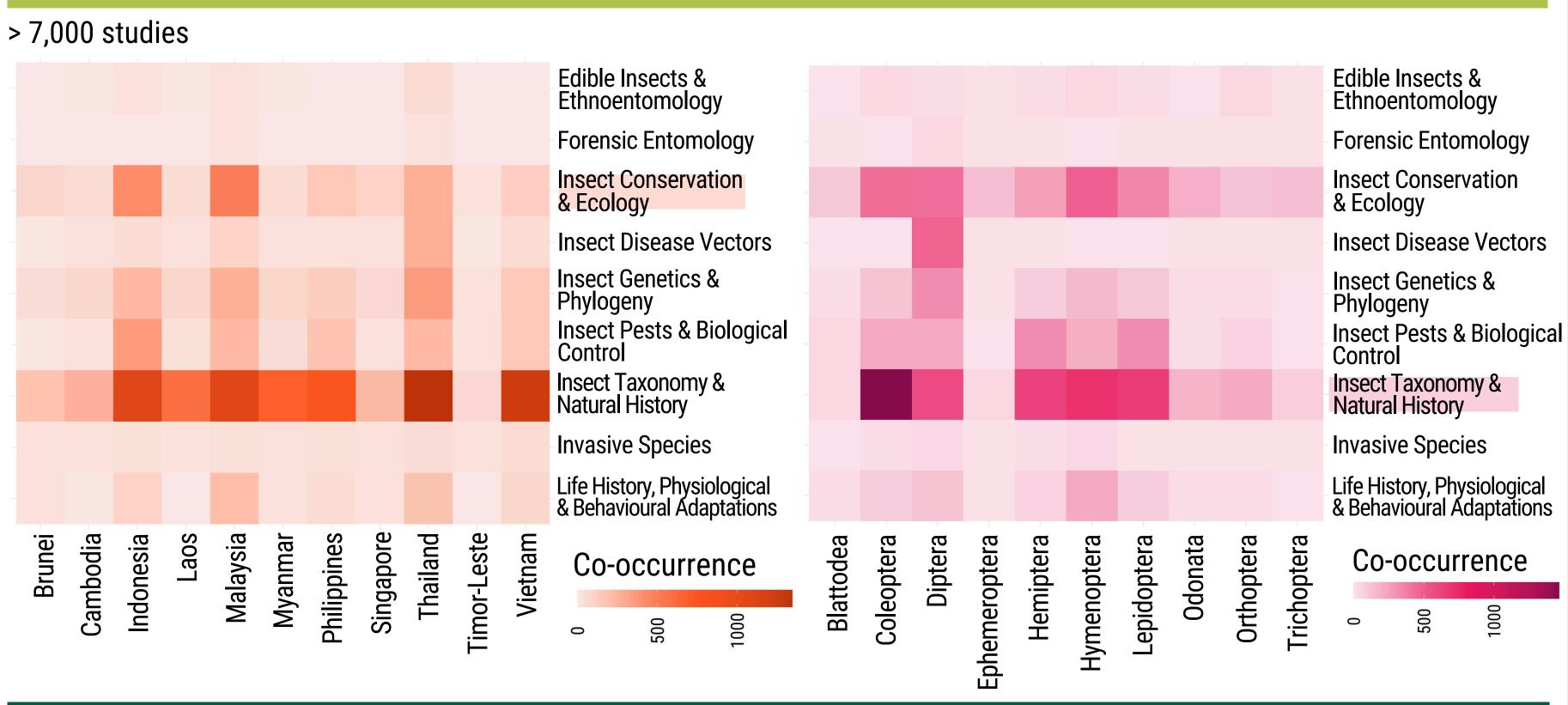
Species records biased towards **Lepidoptera**



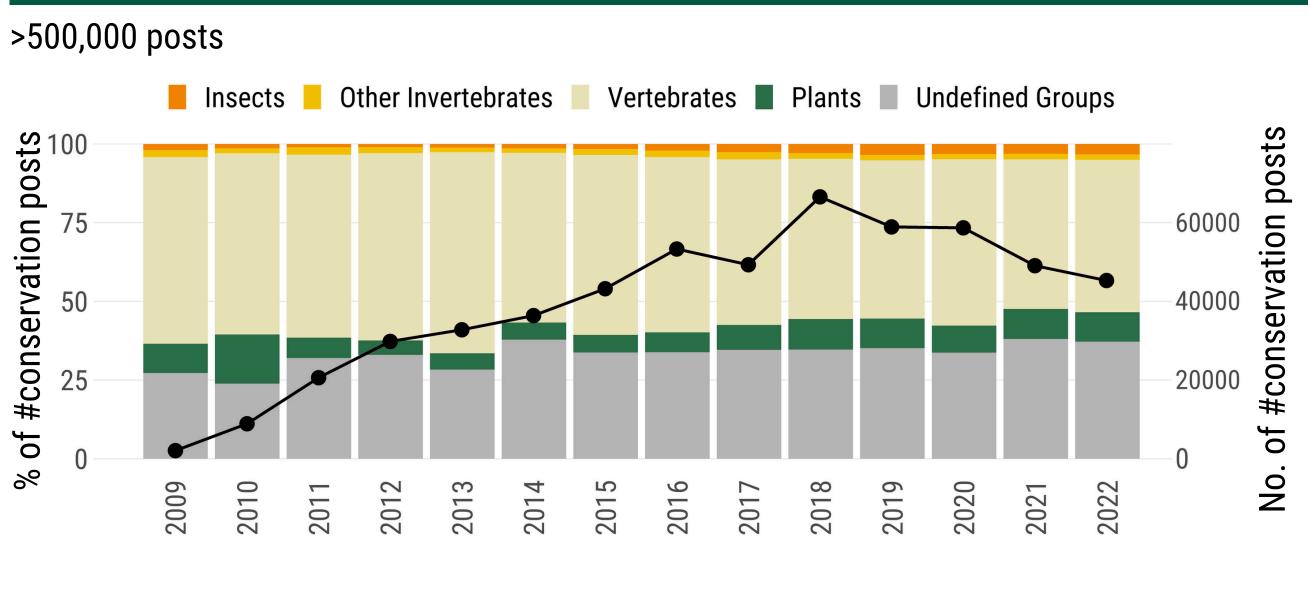
Majority of authors & funding sources located outside of Southeast Asia



Lack of Conservation & Ecology studies in most Southeast Asian countries Taxonomy studies dominate in **pest & vector** groups



Insect vastly under-represented in '#conservation' posts Insect posts biased towards bees & butterflies



PROPOSED SOLUTIONS



Promote Better Coverage Of All Insect Groups



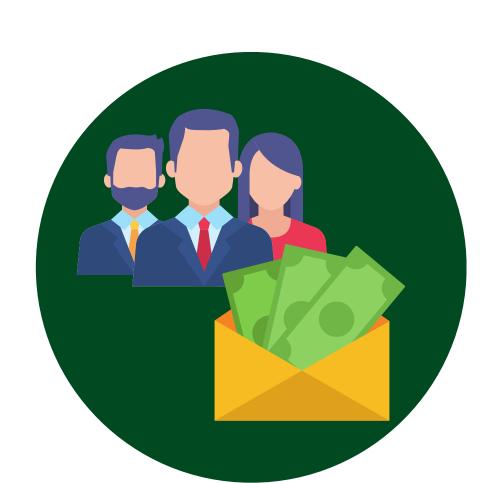
& Local Monitoring



Apply Integrative Taxonomy Approaches



Encourage Regional Collaboration



Increase Funding & Political Recognition