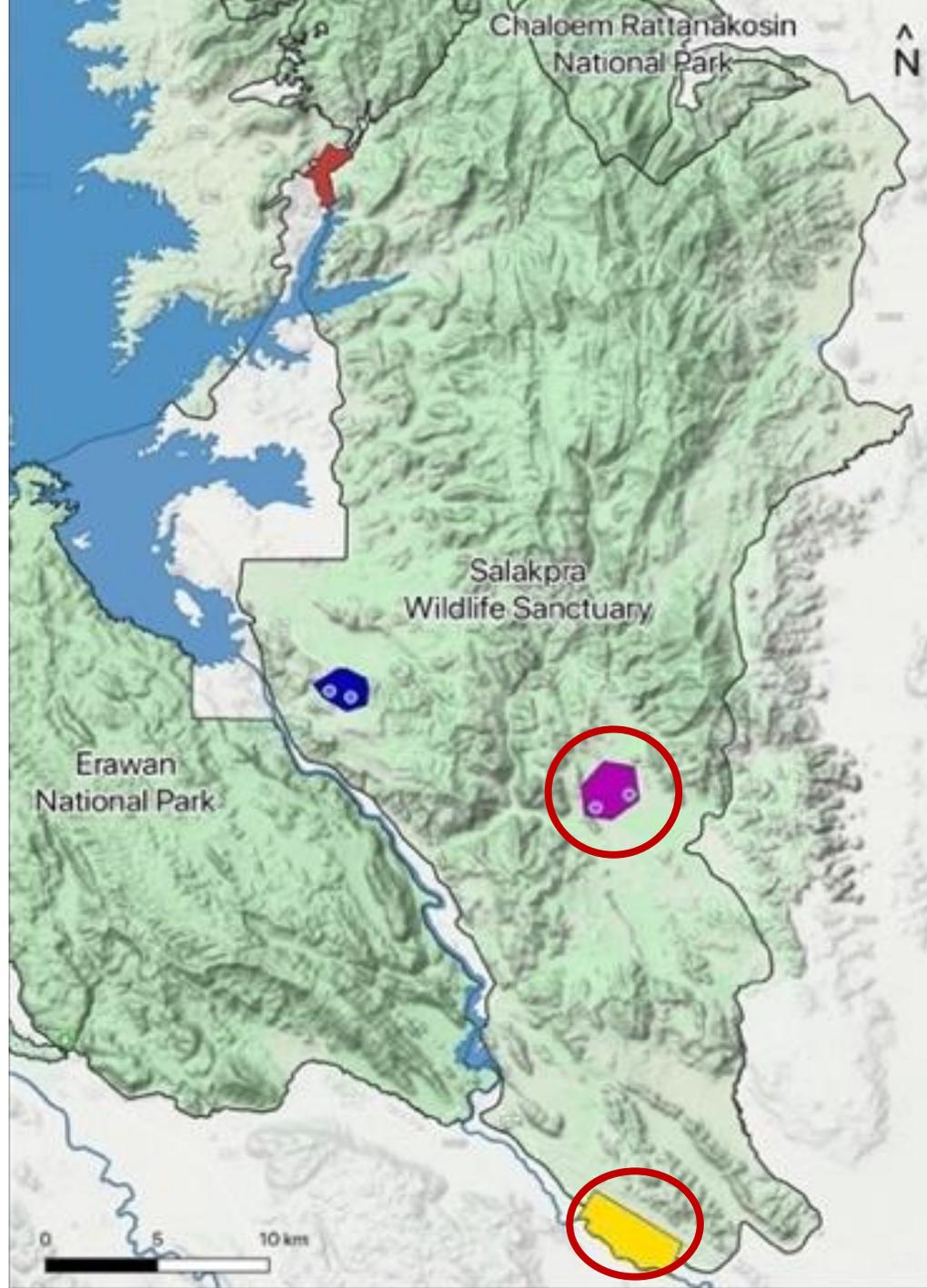


Examining the variation in innovation of Asian elephants across human-dominated and protected environments in Kanchanaburi, Thailand

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Measures= Success, innovation, neophilia, exploratory diversity, persistence

Questions & Results



- Variables associated with interaction on first visit?

Location

Logistic regression:

$\beta = 0.98, p=0.02$

~~Sex~~

~~Age class~~

~~Group~~

- Variables associated with success in first interaction?

~~Location~~

Sex

Age class

Logistic regression:

Sex $\beta = 1.03, p=0.04$

Age class $\beta = -1.77, p<0.001$

- Variables associated with behavioral measures in first interaction?

Neophilia ~ ~~Location Sex Age class~~



Poisson regression:
 Location $\beta = 0.60, p < 0.001$
 age class $\beta = -0.76, p < 0.001$

- Variables associated with behavioral measures in first interaction?

Persistence ~ **Location** **Sex** **Age class**

Logistic regression:
Location $\beta = 0.10, p=0.01$
Age class $\beta = -1.03, p<0.001$
Sex $\beta = 0.40, p<0.001$

- Variables associated with overall innovation across all interactions?

~~Location Sex Age class~~

Conclusions

- Differences based on location, sex, and age class in initial exposure
 - No relationship with innovation when considering performance in multiple interactions
- Knowledge about variation in innovation across landscape informs about elephants likely entering crop fields





ELEPHANT FAMILY
Protecting Asian elephants and their habitat



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Thanks!

