Incidence of malaria in Amboasary Sud District 2015-2018

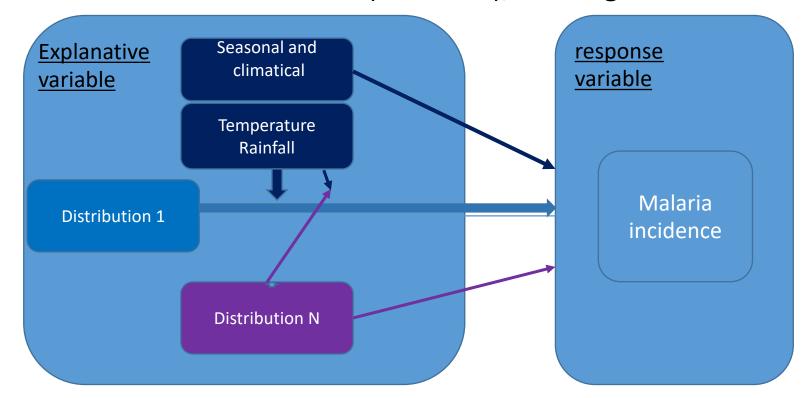
Background

- Although, many interventions to figth against malaria, the burden of the disease steels high and increase in some districts → Amboasary Sud;
- What is the effect of the distribution of sleeping nets on malaria incidence ?
- Mechanistic model question : how does température affect the malaria incidence.



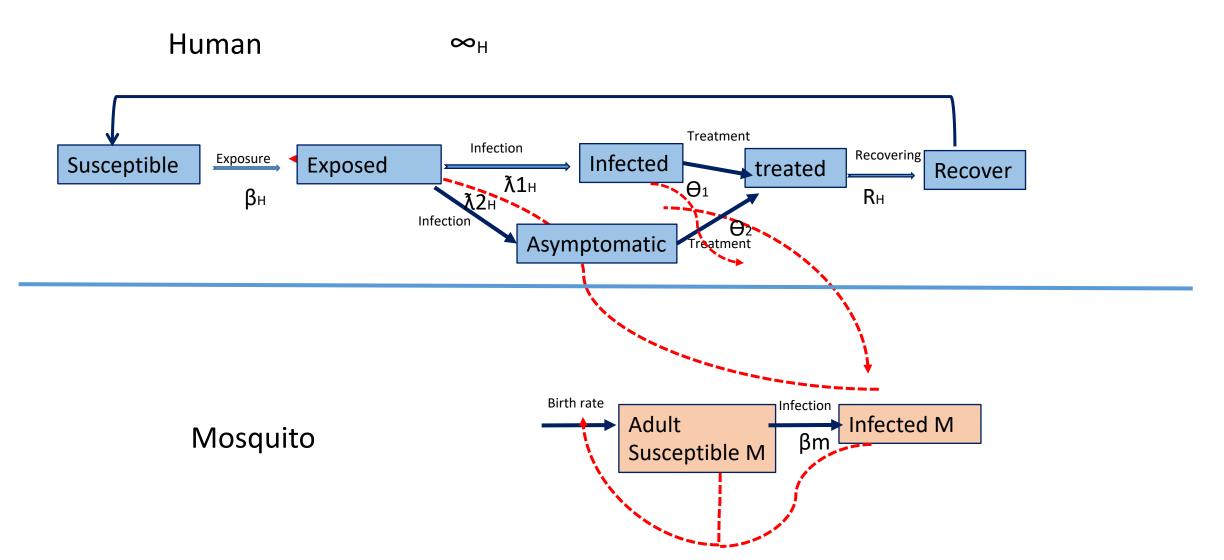
Statistical model

- **Question**: what is the effect of the distribution of sleeping nets on malaria incidence.
- Methodology: Generalized linear mixed model (Gaussian), link: log
- **R-function**: glmm
- Result : decreasing of malaria incidence.
- Hypothesis: nets distribution have a positive impact in decreasing malaria incidence.



Dynamical model

Question: How does temperature malaria incidence



Next step

- Entomological survey: mosquito density, vector behaviour;
- Coverage of bed net and use (malaria indicator survey);
- More explanative variable : geographical and environmental.