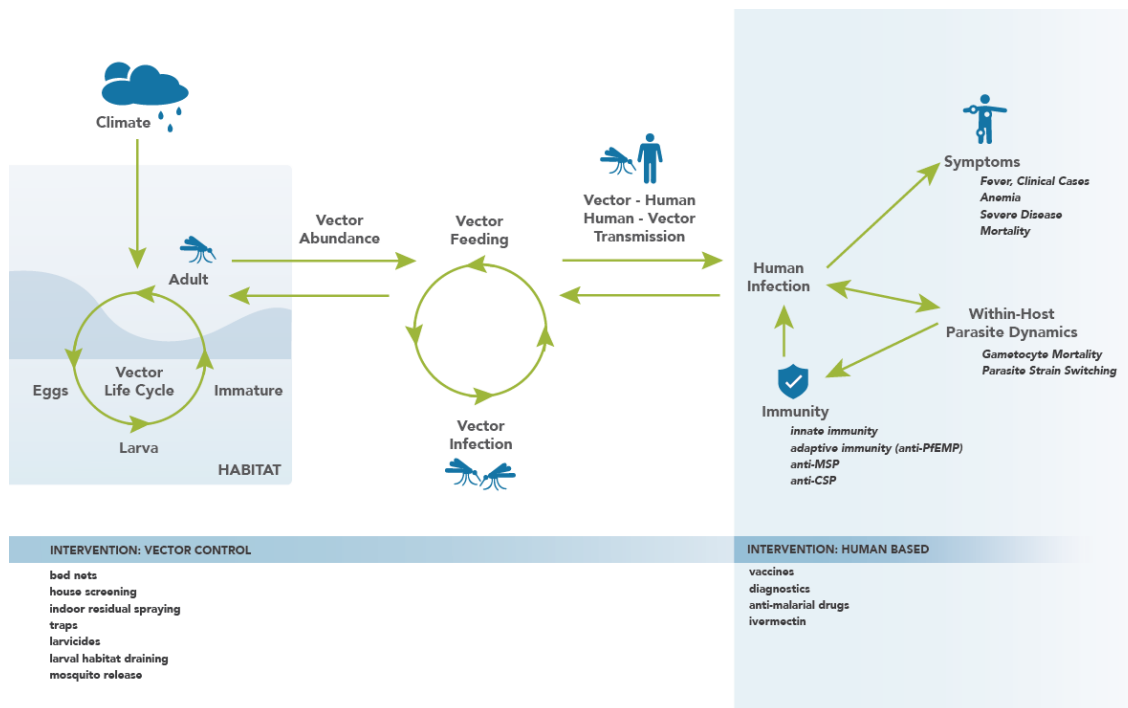


## Model components

The malaria model is complex, with numerous configurable parameters. The following network diagram breaks down the model into various model components, and illustrates how they interact with one another. The components on the network diagram correspond to the structural components listed below. Note that there is not perfect overlap between the labels on the network diagram and the structural components; this is because the network is drawn with increased detail in order to provide clarity in how the model functions and the components interact. The following pages will describe in detail how the structural components function.



## Vector model overview

The EMOD vector model inherits the generic model functionality and introduces vector transmission and mosquito population dynamics. Interventions can be deployed within simulations for a variety of transmission settings with different transmission intensities, vector behaviors, and seasonally-driven ecologies. Climate data is necessary to simulate the effect of climatological impacts on vector biology. To use the vector model, set the configuration parameter `Simulation_Type` to `VECTOR_SIM`.

The figure below demonstrates the main components of the vector EMOD simulation type.

