

Parameters ⚡ denotes a discontinuous process

ν (total) birth rate

μ *per capita* background mortality rate

ν_t proportion successfully vaccinated

β transmission coefficient

σ progression rate

α disease-induced mortality rate

p_t proportion vaccinated

f vaccine efficacy

What level of vaccination is needed to eliminate domestic dog rabies in Tanzania?

State Variables

S Susceptible

E Exposed (infected)

I Infectious (symptomatic)

V Vaccinated (immune)

