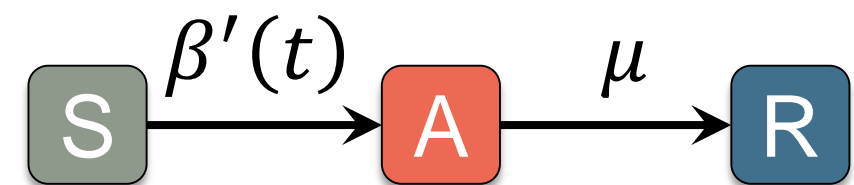


(a)

 Susceptible

 Adopted

 Recovered



$$\beta'(t) = \beta + \alpha \frac{R(t-1)}{N}$$

