**Parameters**

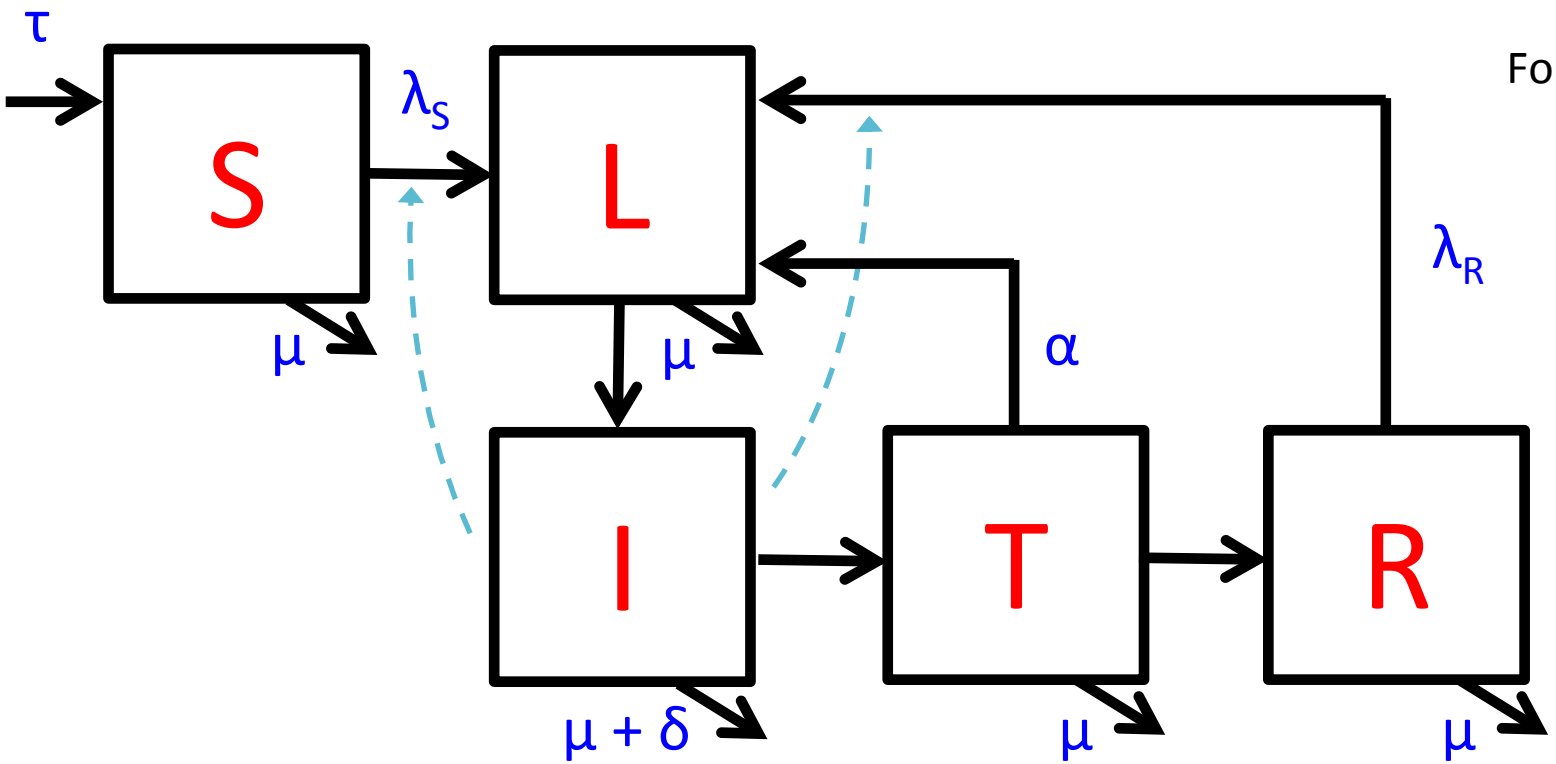
- $\beta$ transmission coefficient (for I)
- $r$ relative infection hazard (for R)
- $\tau$ total birth rate (constant)
- $\mu$ per capita background mortality rate
- $\delta$ per capita disease-induced mortality rate (for I)
- $\alpha$ per capita attrition rate (for T)

**Variables**

- S **S**usceptible
- L **L**atently infected
- I **I**nfectious (active TB)
- T Undergoing **t**reatment
- R **R**ecovered

**Derived quantities:**

$$N=S+L+I+T+R$$




Forces of infection:

$$\lambda_S = \frac{\beta I}{N}$$

$$\lambda_R = r\lambda_S$$