

$$\begin{array}{cc} & \begin{array}{cc} \text{Alive} & \text{Dead} \end{array} \\ \begin{array}{c} \text{Alive} \\ \text{Dead} \end{array} & \begin{pmatrix} 1-p_{\text{die}} & p_{\text{die}} \\ 0 & 1 \end{pmatrix} \end{array}$$