

$$\left\{ \begin{array}{l} N_{n+1} = N_n + N_n K p \left(1 - \frac{N_n + r \sum_{i=0}^{n-1} N_i}{C_n} \right) - N_n r \\ \\ C_{n+1} = C_n + (N_{n+1} - N_n(1-r)) K \left(1 - \frac{C_n}{T} \right) \end{array} \right.$$