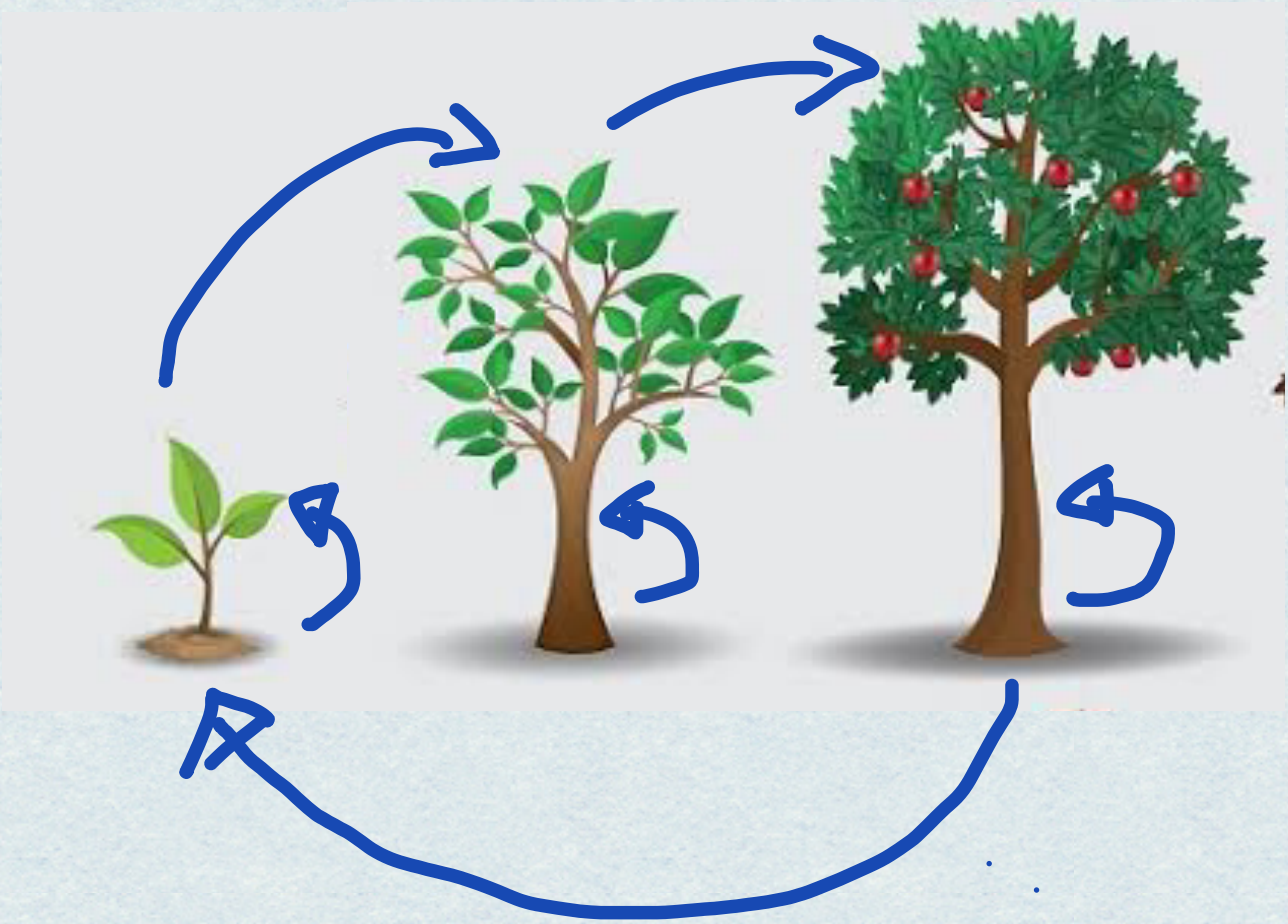
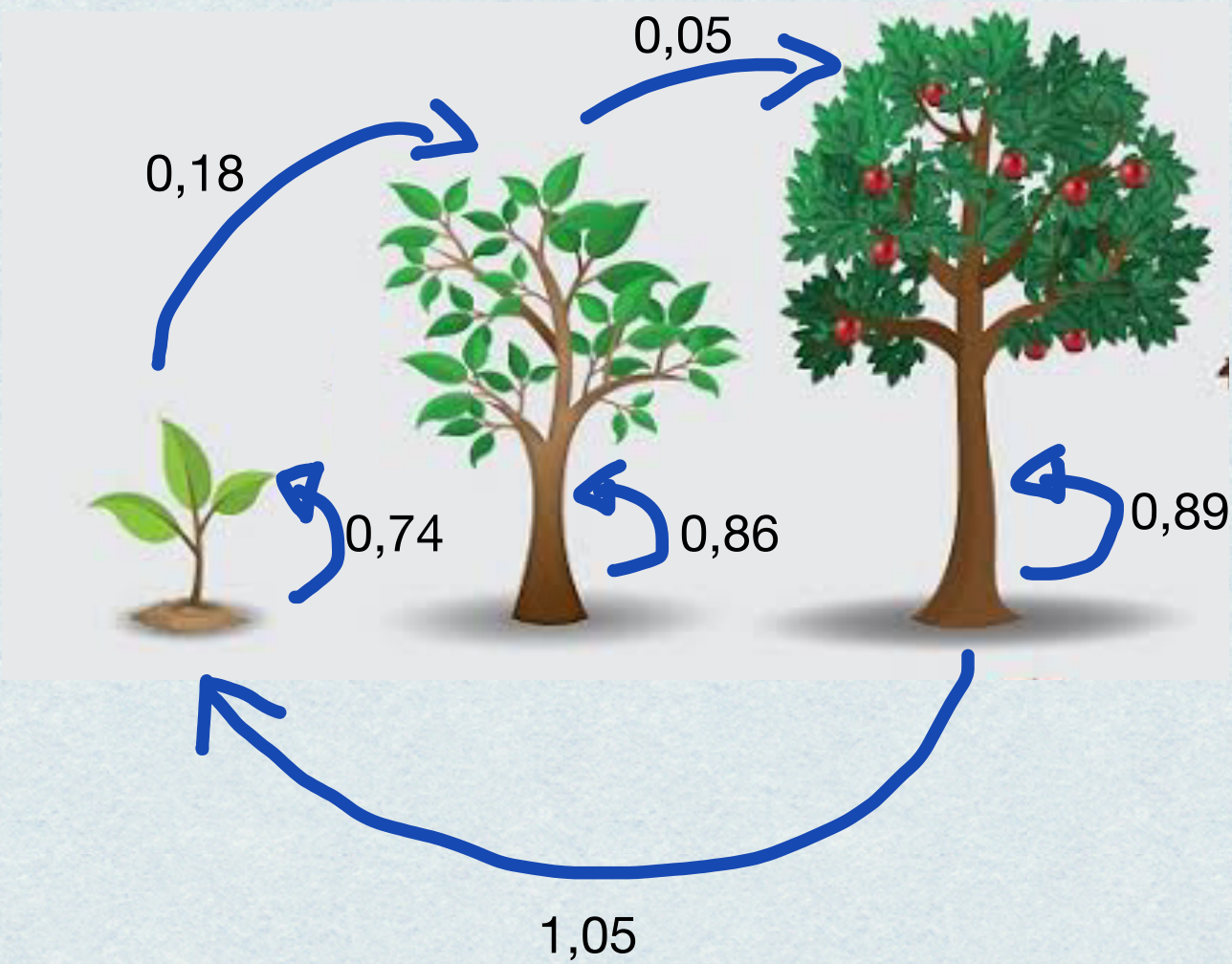
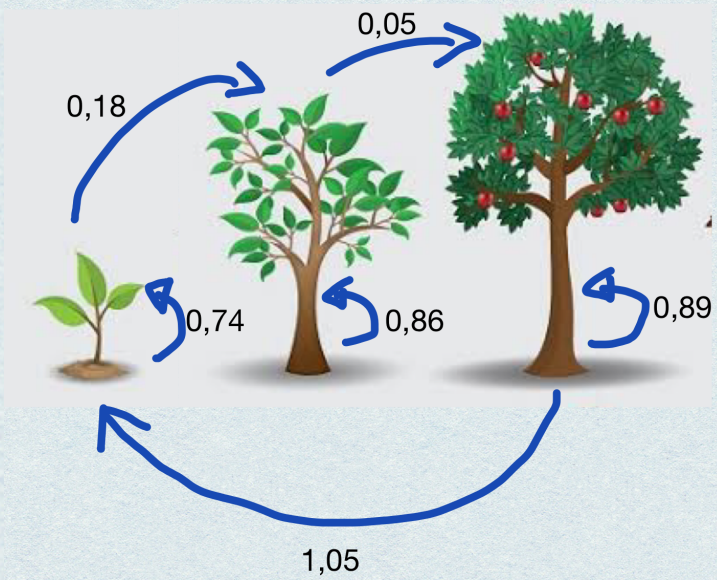
BIE 0320

Bio-USP

$$N_{t+1} = \lambda \cdot N_t$$




0,05
0,18
0,74
0,86
0,89
1,05



$$P_{t+1} = 0{,}74 \times P_t + 0{,}00 \times J_t + 1{,}05 \times A_t$$

$$J_{t+1} = 0{,}18 \times P_t + 0{,}86 \times J_t + 0 \times A_t$$

$$A_{t+1} = 0 \times P_t + 0{,}05 \times J_t + 0{,}89 \times A_t$$

$$\begin{bmatrix} 0{,}74 & 0{,}00 & 1{,}05 \\ 0{,}18 & 0{,}86 & 0 \\ 0 & 0{,}05 & 0{,}89 \end{bmatrix} \times \begin{bmatrix} P_t \\ J_t \\ A_t \end{bmatrix} = \begin{bmatrix} P_{t+1} \\ J_{t+1} \\ A_{t+1} \end{bmatrix}$$

$$
\begin{matrix} t \\ t+1 \end{matrix}
\begin{bmatrix} P_{11} & P_{21} & F_{31} \\ P_{12} & P_{22} & P_{32} \\ P_{13} & P_{23} & P_{33} \end{bmatrix}
\times
\begin{bmatrix} N_1 \\ N_2 \\ N_3 \end{bmatrix}
$$