

$$\begin{array}{ccc}
 x_i^t = (\textit{asyn}, \mathbf{q}^t) & \begin{array}{c} \xrightarrow{1 - \epsilon^{C_0 + ||d_i^t||}} \\ \xrightarrow{\epsilon^{C_0 + ||d_i^t||}} \end{array} & \begin{array}{c} (\textit{asyn}, \mathbf{q}^{t+1}) \\ (\textit{syn}, \mathbf{q}^{t+1}) \end{array}
 \end{array}$$