

Autoregressive Effect (Y)

$$x_{t,i} = \theta_{11}x_{t-1,i} + \theta_{12}y_{t-1,i} + \mu_{x,i} + e_{1,i}$$

$$y_{t,i} = \theta_{22}y_{t-1,i} + \theta_{21}x_{t-1,i} + \mu_{y,i} + e_{2,i}$$

