

Gradualism

March 20, 2018

Lobby

$$\max_{e^t, m^t, l^t} \sum_{t=1}^{\infty} \beta^{t-1} \{A(m_t)F^\alpha \cdot l_t^{1-\alpha} [P^W + \tau(\gamma(e_{t-1}))] - l_t - \mu_t - e_t\} \quad \text{s.t.} \quad m_t = m_{t-1} + \mu_t$$

Bellman Equation

$$V_l(e_t, m_t) = \max_{e_t, m_t, l_t} \{A(m_t)F^\alpha \cdot (l_t)^{1-\alpha} [P^W + \tau(\gamma(e_{t-1}))] - l_t - \mu_t - e_t + \beta V_l(e_{t+1}, m_{t+1})\}$$

Value Function

$$V_l(e_t^*, m_t^*) = \{A(m_t^*)F^\alpha \cdot (l_t^*)^{1-\alpha} [P^W + \tau(\gamma(e_{t-1}^*))] - l_t^* - \mu_t^* - e_t^* + \beta V_l(e_{t+1}^*, m_{t+1}^*)\}$$

t = this period

$t + 1$ = next period

β = discount factor

l = lobby