

$$h_t = A_t ((1 - xi) h_{t-1} + a (h_{t-1} n_t)^{gamma}) \quad (1)$$

$$c_{t+1} = beta c_t \left(1 - delta + \frac{\frac{1-tau_k}{1+tau_i} theta y_{t+1}}{k_t} \right) \quad (2)$$

$$c_t (1 - alpha) = AUX_ENDO_LAG_1.1_{t-1} gamma a A_t \frac{alpha (1 - n_t) (1 - theta) y_t}{n_t} (1 - tau_n) (n_t AUX_ENDO_LAG_1.1_{t-1})^{gamma-1} \quad (3)$$

$$A_t = exp(z_t) \quad (4)$$

$$z_t = rho z_{t-1} + eps_t \quad (5)$$

$$y_t = k_{t-1}^{theta} (h_{t-1} n_t)^{1-theta} \quad (6)$$

$$y_t = c_t + k_t - (1 - delta) k_{t-1} \quad (7)$$

$$AUX_ENDO_LAG_1.1_t = h_{t-1} \quad (8)$$