Households $\max_{c(t),h(t)} \int_0^\infty e^{-\rho t} u(c(t),\ell(t)) dt$ s.t $\dot{k}(t) = w(t)h(t) + r(t)k(t) + \pi(t) - c(t)$ $1 - h(t) = \int_0^{M(t)} \ell_{\iota}(t)d\iota$ Leisure Consumption $\ell(t) = \left(\int_0^{M(t)} \ell_{\iota}(t)^{\frac{1}{1+\zeta}} d\iota \right)^{1+\zeta}$ $Y(t) = \int_{0}^{A(t)} x^{\alpha}(t) L_{y}^{1-\alpha} \mathrm{d}t$ Final Good $\dot{M}(t) = \gamma_M M(t)$ $\dot{A}(t) = s_A(t)h(t)N(t)A(t)^{\phi}$ $L_A(t)$ Intermediate Market $\max_{x_i(t)} p_i(t)x_i(t) - r(t)k(t)$