

$$\frac{\eta B}{\sigma(1-\eta)} \left(\frac{2\hat{n}}{m} \right)^{\frac{1}{1-\eta}} \cdot \sum_j \tau_{j,s} \frac{\eta B}{\sigma(1-\eta)} \int g h_{T,s}^{r-1}$$

$$V_T = (1-s_T)(w_T \tau_T - e_T)^{\frac{1}{1-\eta}} (1+\tau_T)^{\frac{\eta}{1-\eta}}$$

$$V_T > V_i$$

$$(1-s_T)^{\frac{1}{1-\eta}} (w_T \tau_T - e_T)^{\frac{1}{1-\eta}} (1+\tau_T)^{\frac{\eta}{1-\eta}} > (1-s_i)^{\frac{1}{1-\eta}} (w_i \tau_i - e_i)^{\frac{1}{1-\eta}} (1+\tau_i)^{\frac{\eta}{1-\eta}}$$

$$w_T \tau_T - e_T > (w_i \tau_i - e_i) \cdot \left(\frac{1-s_i}{1-s_T} \right)^{\frac{1}{1-\eta}} \cdot \frac{1+\tau_i}{1+\tau_T}$$

Let $w_T = h_T^{\frac{1}{1-\eta}}$

$$w_T \tau_T - \eta g \tau_T w_T$$

$$w_i \tau_i - e_i = A_i \tau_i h_i - \eta \tau_i A_i h_i = (1-\eta) \tau_i w_i^{\frac{1}{1-\eta}}$$

$$\tau_T w_T (1-\eta g) > \tau_i w_i (1-\eta) \cdot \left(\frac{1-s_i}{1-s_T} \right)^{\frac{1}{1-\eta}} \cdot \frac{1+\tau_i}{1+\tau_T}$$

$$h_T^{\frac{1}{1-\eta}} > A_i h_i \cdot \frac{1-\eta}{1-\eta g} \cdot \frac{\tau_i}{\tau_T} \cdot \left(\frac{1-s_i}{1-s_T} \right)^{\frac{1}{1-\eta}} \cdot \frac{1+\tau_i}{1+\tau_T}$$

$$K_T \cdot a_T^{\frac{\frac{1}{1-\eta}}{1-\eta g}} > K_i \cdot a_i^{\frac{\frac{1}{1-\eta}}{1-\eta}} \cdot z$$

$$K_T \cdot a_T^{\frac{1}{1-\eta g}} > K_i \cdot a_i^{\frac{1}{1-\eta}} \cdot z$$

$$K_T^{\frac{1}{\alpha}} \cdot a_T^{\frac{1}{1-\eta g}} > K_i^{\frac{1}{\alpha}} \cdot a_i^{\frac{1}{1-\eta}} \cdot z^{\frac{1}{\alpha}}$$

$$a_T > \left(\frac{K_i}{K_T} \right)^{\frac{1}{\alpha} \cdot \left(\frac{1}{1-\eta g} - \frac{1}{1-\eta} \right)} \cdot z^{\frac{1}{\alpha} \left(\frac{1}{1-\eta g} - \frac{1}{1-\eta} \right)} \cdot a_i^{\frac{1-\eta}{1-\eta g}}$$

$$a_i < \left(\frac{K_T}{K_i} \right)^{\frac{1}{\alpha} (1-\eta)} \cdot \left(\frac{1}{z} \right)^{\frac{1}{\alpha} (1-\eta)} \cdot a_T^{\frac{1-\eta}{1-\eta g}}$$

$$a_i < \frac{K_T^{\frac{1}{\alpha}} (1-\eta)^{\frac{1}{\alpha}}}{K_i^{\frac{1}{\alpha}} z^{\frac{1}{\alpha}}} \cdot a_T^{\frac{1-\eta}{1-\eta g}}$$

$$\int F_1(a, \xi_1 \cdot a^{\frac{1-\eta}{1-\eta g}}, \xi_2 \cdot a^{\frac{1-\eta}{1-\eta g}}, \dots, \xi_M \cdot a^{\frac{1-\eta}{1-\eta g}}) da$$