## Matching in the Heterogeneous-Agent Model

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Makdning in HAM model · Household i visits vi phops . Mouschold i has a capacity of ki services Aggregate matching function determine # of trastes (# of service cold/purchased) matching function  $\gamma = m\left(\sum_{i}^{n} k_{i}, \sum_{i}^{n} \sigma_{i}\right)$ output, # ouris asld/ purchased Zi hi = k = aggreægate supply of perois, capacity E, J' = J = aggregate # doroits Selling probability: ( proba. to sell one service)  $\int \frac{-}{\sum_{i} k_{i}}$  $= M\left(1, \frac{\sum_{i} U_{i}}{\sum_{i} k_{i}}\right)$ market tight mets  $\chi = \sum_{i}^{l} U_{i}$ Z' ki

 $\int (x) = m(1, x)$ -> household i will sell f(x). ki pavia Buying probability:  $q = \frac{\gamma}{\Sigma_i \sigma_i} - m\left(\frac{\Sigma_i l_i}{\Sigma_i \sigma_i}, 1\right)$   $\frac{q(\pi)}{q(\pi)} = m\left(\frac{1/\chi}{\chi}, 1\right)$ 

-, household i will buy q(n). V. Dervies