## Aggregate Demand in the Heterogeneous-Agent Model

Pascal Michaillat https://pascalmichaillat.org/c2/

Aggregale demand Household , purchases  $\gamma_{i} = \sigma(x) \int (x) k_{i} + \nu_{i} \int P$ Total amount of penices purchased !  $\gamma = \sum_{i} \gamma_i$  $= \frac{\sigma(x)}{x} \left[ \int (x) \frac{z}{z} \ln t + \frac{z}{z} \frac{\mu'}{p} \right]$  $= \frac{1}{p} (n) \times \left[ \frac{f(n)h}{y^{s}(n)} + \frac{p}{p} \right]$   $M = \frac{1}{p} (n) \times \left[ \frac{g(n)h}{y^{s}(n)} + \frac{p}{p} \right]$ aggregate quantity laggregate Jocuris de manded sapply . Sany's Law: Supply creates its own demand . When Say's Law holds. no proper concept of aggregate demand.

Because ECI. Say's Law is broken ( supply doe not neate its own demand entirely) is only a fraction (o c) of pupply becomes demand RMPS -> we have a proper concept of aggregate demand. Why is Say's Law broken? Because & <1, which is because X < P (fime), which is because real weath enters the utility  $\int undtion$   $\int condtion$   $\int u(c,m) = \frac{x}{1+x} \left( \frac{z}{2} + \frac{1}{1+x} \left( \frac{m}{2} \right) \right)$   $= 1 i \int x = \sigma = 0 i \int x = \sigma$ To preak Say's Law: household must cale something else than consumption -> here it's real wealth. From aggregate demand analysis  $\gamma = -(x) [\gamma^{s}(x) + \mu/\rho]$ 

Marginal propensity to spend (MPS) 5 hr) : decreasing w/ n 4<sup>s</sup>(a)! aggregate Dupply = real income increasing w/n - Two counteracting faces, hand to know whether output of moreases on decreases w/ tightmess