




**Comments on J. Fisher’s “Why Does Household Investment Lead
Business Investment Over the Business Cycle?”**


Pedro Silos

Federal Reserve Bank of Atlanta



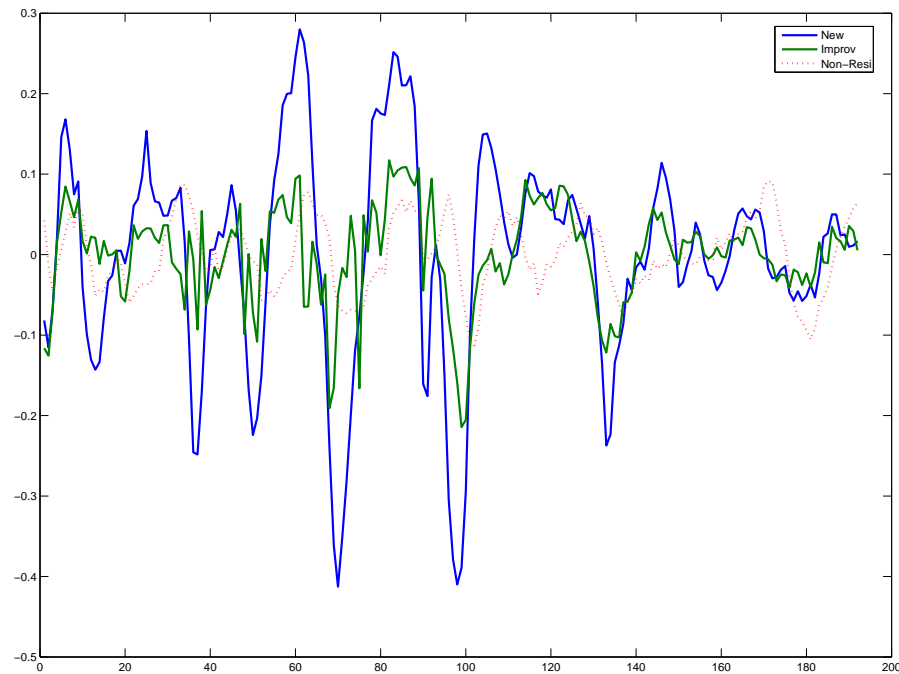
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- ▶ Goal of the paper: Build a model consistent with the behavior of residential and non-residential investment over the business cycle.
 - ▶ Three stylized facts:
 - ▷ Residential investment leads business investment.
 - ▷ Residential investment is more volatile than business investment.
 - ▷ Co-movement between both types of investment.
 - ▶ Jonas's paper hits all three targets!




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- ▶ Innovation with respect to previous models:
Household capital useful in market production.
 - ▶ Houses and household durables make workers more productive.
 - ▶ Double motivation:
 - ▷ Re-generation (Why not food, health, . . . ?)
 - ▷ Co-location (I like this one better).




- ▶ Improvements vs. new homes behave the same way, helps with Jonas's dual interpretation.




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- ▶ Why it works:
 - ▶ Investing in household capital helps getting:
 - ▷ Home-produced goods.
 - ▷ Market-produced goods.
 - ▶ Result: A positive z_t shock leads to higher investment of both types and proportionately higher household investment.




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- ▶ Choice variables: (p. 7) optimize by choosing $k_{t+1}, s_{1,t+1}, s_{2,t+1}, \dots, s_{J-1,t+1}, s_{J,t}, h_{n,t}, h_{c,t}$.
 - ▶ Time-to-build technology:
 - ▷ Choose to build a plant, ready to produce in J periods.
 - ▷ Pay 1/4 in each period.
 - ▷ $s_{J,t}$ – choice of plant.




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- ▶ $s_{J,t-1}$ – plant chosen the previous period.
 - ▶ By law of motion $s_{J,t-1} = s_{J-1,t} = s_{J-2,t+1}$. Still a “state”.
 - ▶ Choose $c_{m,t}, n_{h,t}, n_{m,t}, h_{n,t}, s_{J,t}, h_{t+1}$ given $h_t, k_t, \{s_{i,t}\}_{i=1}^{J-1}$



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- ▶ Upper-right impulse response in Figure 5: Why that delay (even decrease) in business investment?
 - ▶ Technology implies incentive to invest in both types.



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- ▶ Overall, a simple (\therefore appealing) model that reconciles RBC theory with “idiosyncratic” investment behavior.

