Discussion of

Securities transaction tax: macroeconomic implications in a GE model

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Short review of the paper

elegant RBC model

The goal is to introduce a FTT on the secondary market of firms equities

For this the authors adopt a modelisation fairly close to GK (JEM, 2011) => equities & FI

Introduce an ex-post heterogeneity among financial intermediaries via an iid noise shock

Noise traders organise a trade with RE traders

Short review of the paper

- Noise traders organise a trade with RE traders :
 - results in a price for the firms shares
 - also creates a fiscal basis for an ETT

Use a fairly conventional calibration to analyse the effects of the ETT and compare it with a capital income taxation yielding the same revenue.

Compare :

- stochastic steady state
- standard deviation
- relative standard deviation (??)



Goods firms produce using capital and labor

They buy capital goods from capital producers and at the end of the period they resell them the remaining of it (1-δ)K

Capital producers $K_t = K_{t-1} + I_t$. No capital or investment adjustment cost => price of capital is constant to 1.

Firms pay capital goods by issuing equities (and borrowing) they sell to FI. For short

$$K_t = P_t^S S_t$$

Short-lived (2-periods) but we do not really understand from the text what these 2 periods are:

• do they actually live for one period and what you call the second period is this "intra-period" where they trade on the secondary market?? If yes, we are in troubles. The GK incentive constraint

$$\chi \cdot P_t^S S_t \le E_t \left[\Lambda_{t,t+1} \Pi_{t+1}^{FI} \right]$$

boils down to

$$P_t^S S_t \le \phi_t N W_t = \phi_t \rho P_t^S S_t$$

birth in 1 with NW = ρ P^SS and make NW evolve for period 2, then die and gives back NW to households ?? If yes, the dynamics of the NW is missing. At the end of the period we should have NW^{RE}≠NW^N, right? We can assume it is close to GK but it is important to show to understand the pricing behavior and dynamics.

Discrepancy between expression for \u03c6t (page 8) where the risk-free rate is constant, and the various tables of results where the risk-free rate is shown to have a non-zero std. What drives the risk-free rate ?

In GK, K = S and $P^{K} = P^{S}$.

Here, how are P^s and S actually computed ?

- So far only *P^SS* is known
- need to put the noise shock in action
- then $\phi^{RE} \neq \phi^{N}$ and $(1-s_n)P^{S}S^{N} + s_n P^{S}S^{RE} = P^{S}S^{N}$
- RE FI are tied by the $P^{S}S^{RE} = \phi^{RE}NW = P^{S}S$ constraint : they can only sell/buy equities to noisy FI if the movement in price compensates.
- As this is at the core of the paper, more analytical insight about the way this price is formed would be welcome.

How are P^s and S actually computed ?

- Not obvious why a RE FI should enter into "noise trade" since not directly affected by the noise shock. Only indirected affected through variations on the demand for shares that can affect the price.
- Will only accept to trade if it leaves its leverage unaffected, i.e. that the price of the transaction covers
 - for the risk position taken w.r.t. next period iid noise shock
 - for the transaction cost, i.e. the ETT

Noise shock is a tale for something more fundamental as risk-aversion (and/or wealth) distribution.

As such, not sure that financial transactions have to be interpreted narrowly as "inefficient trade"

Discussion

Effect of the tax: lowers the demand for trade by noisy FI that end up in a decrease of P^S (table 1).

But what happens concerning the leverage ratio of the FI? As it is also lowered, this could be viewed as a decrease in the systemic risk (even though a notion absent here), which potentially is a source of welfare gain.

Can we compare the effect of such a tax

- not only to those of a tax on capital
- but also to those of a FI leverage ratio regulation: just compare the leverage without the tax to the leverage obtained after the tax. What is better for the economy: to impose this leverage or to let it to be fixed by the market via an ETT ???

Discussion

The tax decreases the noisy-inefficient trade, but at the cost of a decrease of the economic activity by raising the cost of capital.

What does happens in your model if you increase artificially noise trade (by increasing the variance of the noise shock) ?

My feeling is that more noise trade, increasing the FI activity will lead to more investment and more output, as computed by the stochastic steady state. If this is the case, we would have that an inefficient shock leads to something "efficient". Policy conclusion of the paper could then be : encourage inefficient trading. Policy relevant question is : what is the optimal size of the financial sector.

Conclusion

Very nice framework with a relatively simple trick to introduce a secondary market for equities and the possibility to tax trade o this market

As this market is at the core of the paper, need to think more deeply to what such a modelisation implies

Results very robust to callibration and showing that ETT will be economically costly.

However, as admitted by the authors, the cost of inefficient trading is may be under evaluated. This cost is however not only the resources affected to this "inefficient" activity, but also the (hidden) systemic risk linked with this activity.

Conclusion

Autors have already written a long "to do" list (costly FI, welfare analysis, endogenous loans/equities mix...

One of the main point could be to assess the distortive effects of the ETT compared to other distortive taxes.

Already did it for a capital income tax. Seems that ETT, for the same level of revenue, is a perfect substitute for a capital income tax ?

Should then compare it with the other distortive tax in the model: labour income tax. Is it worth to substitute the latter by some ETT ?