DISCUSSION OF:

Optimal Debt Restructuring and Lending Policy in a Monetary Union

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- European debt crisis highlighted the importance of macroeconomic spillovers between debtors and creditors
- The story:
 - when highly indebted countries are forced to deleverage...
 - demand falls in the entire region ...
 - which leads to a region-wide recession ...
 - > and makes everyone (debtors and creditors) worse off
- What can policy makers do in this situation?
 - If high debt is making everyone worse off ...
 - maybe debt relief can be a Pareto improvement
 - Is this possible? If so, how should it be structured?

Answering these questions requires a model that captures:

- mechanism by which deleveraging in a debtor country affects demand/output in creditor countries, and
- differences between types of debt relief
 - simple write downs
 - lending at a below market rate
 - extending the maturity of the debt
- The paper does this in a fairly rich two-period model
 - many countries (some are borrowers, some are savers)
 - b differentiated commodities and monopolistic competition
 - etc., etc.

Results are interesting

- debt reductions can indeed yield Pareto improvements
- but one needs to be careful about the details
 - better to lend at below market rates than to simply forgive
 - role for extending maturity of debt

My plan

- Try to illustrate (some of) the key ideas graphically
 - aim to understand better what is important here
- Offer some comments/questions

A simplified (two-country) model

- Preferences: $u(c_1^i, h_1^i) + \beta u(c_2^i, h_2^i)$ for i = S, B
- Technologies: $\sum_i c_t^i \le A \sum_i h_t^i$
- Budget constraints:

Borrower:

$$c_1^B \le y_1 - \bar{d_1} + q(d_2)d_2$$

 $c_2^B \le \max\{y_2 - d_2, y_2 - \chi\}$

Only real difference is initial debt

Saver:

$$c_1^S \le y_1 + \overline{d_1} - qd_2$$
$$c_2^S \le y_2 + (1 - \delta)d_2$$

No debt $(\bar{d}_1 = 0)$



Debt with no default



Debt with default (no ZLB)

Debt with default (no ZLB)

Debt with default and a ZLB

The only way for markets to clear is ...

The question

- Can a (smaller) debt relief yield a Pareto improvement?
 - seem plausible: there are idle productive resources
- Try: forgive amount of debt equal to t = 1 output gap
 - if country 1 consumes the entire transfer...
 - output returns to potential
 - incomes rise
 - everyone is happy
- Problem: what if they save some of the transfer?
 - need to transfer more ...

1) An interesting insight

- Even in a setting where the aggregate demand spillovers are large (by construction)
 - ... so it seems like the story should work ...
- Simple debt forgiveness is typically a bad deal for creditors
 - this point was not so obvious (at least to me)
- But ... it is a bad deal for an "odd" reason
 - debtors behave too conservatively once debt is forgiven
 - impose "austerity" to partially pay down remaining debt
 - creditor nations want debtors to spend more

2) Forgiving vs. forgetting

- Optimal policies forgive debt and *discourage* saving
 - by subsidizing current borrowing, or shifting to longer-term debt that can be diluted
 - which ensures the country remains sufficiently indebted
- Reason for this in the model is clear
 - Benefit of forgiveness (for creditors) is the increased demand for their current output ...
 - which cannot be generated domestically because of the ZLB
- How strongly do we believe this mechanism?
 - I don't recall comments from German officials along these lines
 - Are they just wrong? Is the model missing something?

3) Eurobonds to the rescue?

- Savers in the model buy a diversified portfolio of bonds
 - take default rate as given
 - do not think that saving more will lead to higher default rate
- Borrowers issue country-specific bonds
 - recognize that issuing more raises the interest rate they pay
 - this fact drives a wedge between the MRS of savers and borrowers
- Suppose a central agency packages country bonds into Eurobonds ...
- ... and charges all borrowers the *average* interest rate
 - regardless of their own default probability

- In equilibrium, all countries issue the same amount and receive a "fair" price for their bonds
 - but the equilibrium quantity of debt issued will be higher
- Would this centralized debt pricing raise welfare?
 - would it mitigate (or prevent?) the problems associated with the ZLB?
- Usual worry with this scheme: introduces an externality
 - > my issuance raises the interest rate everyone must pay
 - gives countries an incentive to over issue
 - but the problem in this model is debtors issuing too little debt
 - seems worth considering