

Multinational Banks and Financial Stability

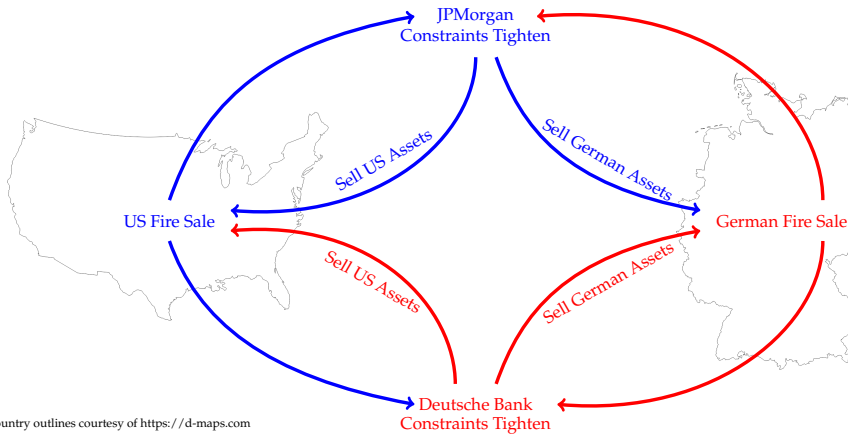
Christopher Clayton and Andreas Schaab

Discussion by Mark Aguiar

Overview

- ▶ Extremely elegant and important paper
- ▶ Key contribution:
 - ▶ Maps a well-studied phenomenon (pecuniary externalities in global financial markets) into the classic paradigm of competitive equilibrium
 - ▶ Can then apply deep but familiar results from GE
 - ▶ “Correct” price of externality can be set non-cooperatively by national regulators
- ▶ Mapping not ex ante obvious but quite intuitive ex post – like many great papers
- ▶ Raises some unanswered interesting questions – primarily to do with market power and time consistency

Fire Sale Spillovers



A Simple Environment

- ▶ First, consider the “ex post” problem of liquidating assets
- ▶ To map into the authors’ paper, suppose each country endowed with X units of “stuff” (pollution, liquidated assets, etc) that needs to be placed in “landfills/markets”.
- ▶ Payoff to Home is $u(\theta(X - x), \theta^*x, x^*)$
 - ▶ $X - x$ is Home stuff in own landfill
 - ▶ x is Home stuff shipped to Foreign
 - ▶ x^* is stuff rec’d from Foreign
 - ▶ θ, θ^* is a quality/taste shifter of landfill
- ▶ $u_2 > 0$, $u_3 < 0$ and u concave
- ▶ Symmetric payoff for Foreign: $u(\theta^*(X - x^*), \theta x^*, x)$

Efficient Allocation

- ▶ Suppose efficient allocation is $x = x^* = \omega X$, $\omega \in (0, 1)$
- ▶ Can be implemented via competitive market via usual assumptions:
 - ▶ Concavity
 - ▶ Countries are price takers
- ▶ $p = 1 = u_1/u_2$ is relative price of a unit of Home landfill
- ▶ Also can be implemented with quotas set by global planner

National Regulator

Quantities

- Set foreign quota to zero:

$$\max_{x, \bar{x}^*} u(\theta(X - x), \theta^*x, \bar{x}^*) \text{ s.t. } x \leq \bar{x} \text{ and } \bar{x}^* \geq 0$$

- No compensation for $u_3 < 0$ absent side payments
- If x affects θ , ignore impact on Foreign $u^*(\cdot, \theta x^*, \cdot) \Rightarrow$ too much dumping at home

National Regulator

Tariffs

- ▶ Will set tariff to p !
- ▶ Achieve globally efficient outcome
- ▶ Endogenous X : An additional relative price needs to be set efficiently (tax on ex ante investment)
- ▶ Note that price/regulation treats fire sales equally regardless of Home vs. Foreign

National Regulator

Tariffs cont'd

- ▶ Why no discrimination ex post?
- ▶ Think of a country producing a final composite good – access to an investment opportunity or pollution market
- ▶ Charges a fee up front for access and then a state-contingent price ex post
- ▶ Optimal strategy is to maximize quality/efficiency of ex post opportunity to get high ex ante price
- ▶ Equate ex post price to ex post marginal cost
- ▶ Ex ante price globally efficient only if country has zero market power

Hold-up Problem?

- ▶ Two-part tariff: Price of entry and then a state contingent price of liquidation ex post
 - ▶ Ex post efficiency raises price of entry
 - ▶ Diamond-Mirrlees intermediate inputs
- ▶ Commitment is crucial
 - ▶ Equal treatment not time consistent
 - ▶ Like a tax on capital

More on market power

- ▶ May charge an inefficiently high entry price
- ▶ Similar to optimal tariff/ToT manipulation
- ▶ Bagwell-Staiger work on GATT/WTO points to a possible solution
- ▶ Does GATT-like agreement to correct market power change the ex post efficiency result?

Rent seeking

- ▶ Lobbying and rent seeking
- ▶ Is this why quantity restrictions are often used in practice?

Conclusion

- ▶ Extremely nice paper
- ▶ Applied theory at its best
- ▶ Ideally – widely read by both academics and policy makers