Terms of Trade Shocks
Economic Policy and Institutions

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Introduction

• an old problem:

One of the greatest evils in international trade before the war was the wide and rapid fluctuations in the world prices of primary products ..

It must be the primary purpose of control to prevent these fluctuations ..

J.M. Keynes, *EJ*, 1942

• terms of trade volatility enormous for developing countries
• volatility peaked in the 1970s, but still very high in Africa and South Asia
Figure 3. Volatility of Terms of Trade Growth (regional medians)

Loayza et al., WBER, 2007
Terms of trade shocks

• obvious reasons for volatility:
  reliance on a few primary exports
  exposure to climate shocks

• made worse by inappropriate policy responses
• what policies are appropriate?
• the Lucas question: does it matter?

Development Economics

- not very helpful: models in which consumption smoothing cannot be analysed realistically
- growth models without risk
- micro models with risk, borrowing constraint, but perfect assets

Policies in Shock-Prone Economies

- **self-protection**: lower exposure to risk
  - macro: reduce openness, international price stabilization (buffer stocks)
    Keynes in the 1940s, New International Economic Order in the 1970s
  - micro: export taxation and producer price stabilization, shield private producers, shift shocks to government
- **self-insurance**: saving and dissaving using foreign assets
  - indeed enormous rise in assets/importss
- **insurance or contingent credit lines**: international risk pooling

Ehrlich and Becker, *JPE*, 1972
Private Shocks: Domestic Price Stabilization

- custodial role for government: export taxes, stable producer prices
- rationale: private producer (African farmer) will not save windfalls
- fact free policy consensus
- evidence: private agents do save
  .. and governments often do not
- price stabilization flawed: compulsory insurance with full cover

Bevan, Collier, Gunning, *Peasant and Governments*, 1989
Collier and Gunning, *Trade Shocks in Developing Countries*, 1999
Public shocks

• economic issue: use of windfall savings: domestic and foreign assets
• 1970s oil booms squandered
• mismanagement of positive shocks becoming rare
• but the issues remain
  policy maker may no be able to resist spending demands (oil funds)
political economy literature: policy maker has no incentive to save
International risk pooling: insurance, credit, aid

- Guillaumont and Chauvet: aid in response to negative shock is very effective: “aid as insurance”
  one of the few robust results in growth regressions ..

- but donors have abandoned schemes like Stabex, a major policy error

- national policies inefficient: no pooling of reserves
- need for international finance: credit and insurance
Growth and risk: the dog that did not bark ..

- trade shocks literature focused on the effect of *actual* shocks
- so does the micro literature on shocks at the household level
- shocks matter, not only when they occur but also when they can occur: *ex post* and *ex ante* effects
- *ex ante* effects can be very large

Elbers et al., *WBER*, 2007
How serious is the problem?

• we do not really know
• growth regressions literature estimates effect of risk (ex ante and ex post)
• no distinction between two reasons for macroeconomic volatility:
  exposure to high risk
  poor risk coping

Barlevy, *JEP*, 2005
Ramey and Ramey, *AER*, 1995
Van der Ploeg and Poelhekke, *OEP*, 2009