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Introduction

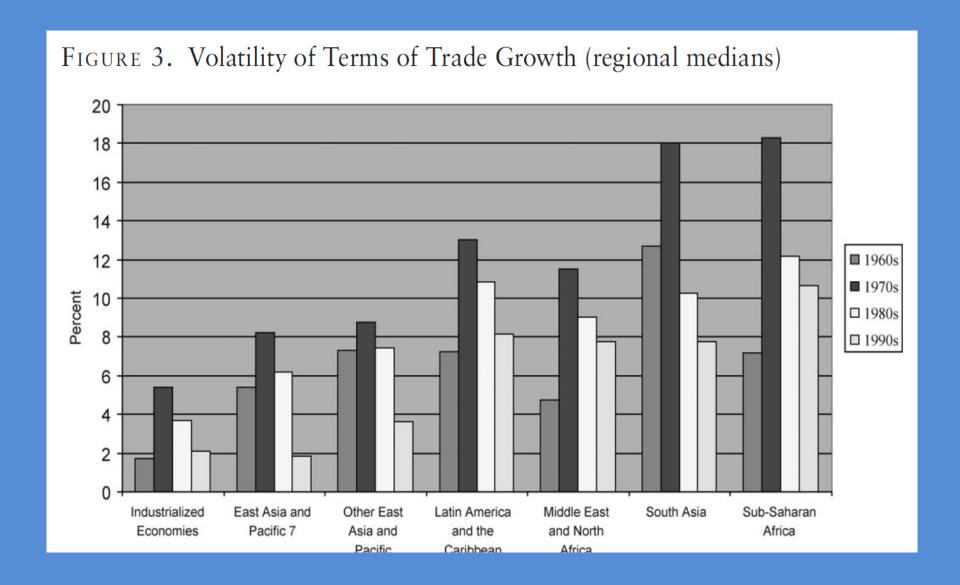
an old problem:

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



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?

Lucas, Models of Business Cycles, 1987

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

Deaton, Econometrica, 1991

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/imports
- insurance or contingent credit lines: international risk pooling

Ehrlich and Becker, JPE, 1972 Newbery and Stiglitz, The Theory of Commodity Price Stabilization, 1981

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

Newbery and Stiglitz, *The Theory of Commodity Price Stabilization*, 1981 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) poltical 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

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

Lucas, *Models of Business Cycles*, 1987 Barlevy, *JEP*, 2005 Ramey and Ramey, *AER*, 1995 Van der Ploeg and Poelhekke, *OEP*, 2009