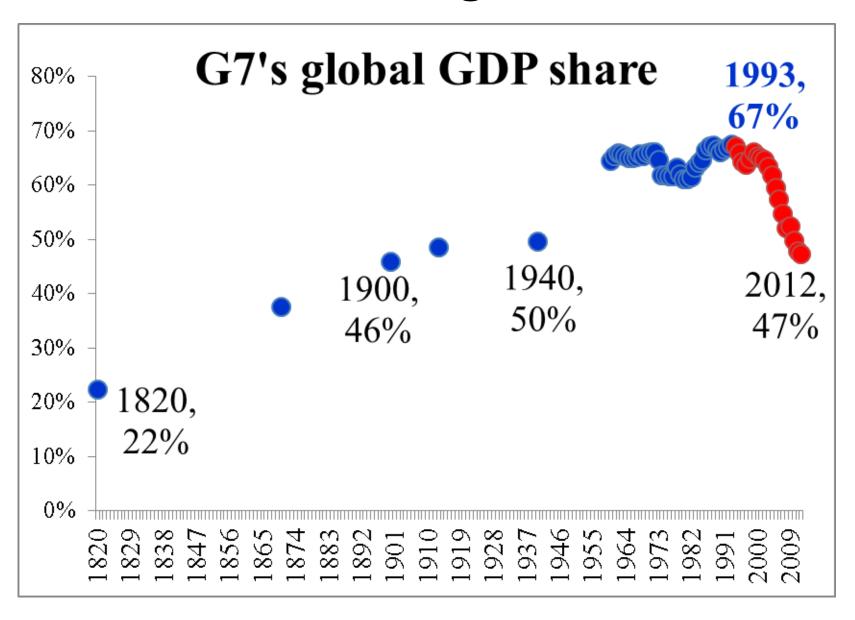
### Global value chain revolution: Implications for central banking

Richard Baldwin

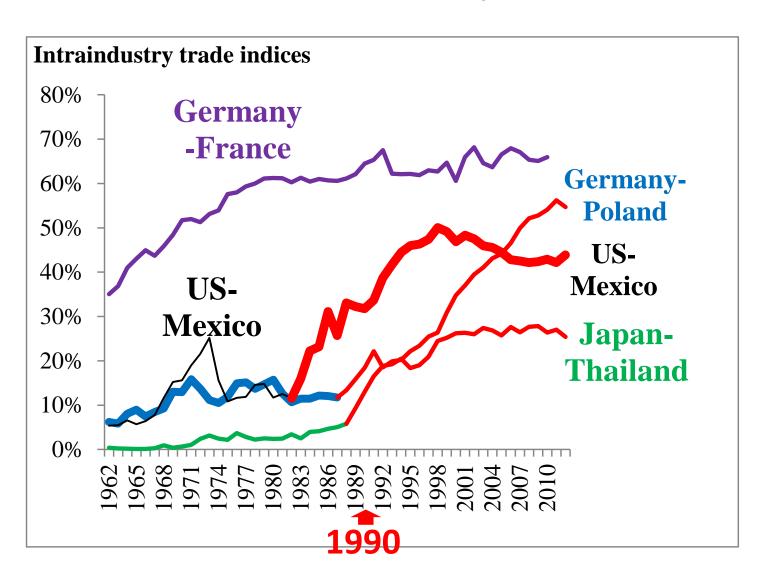
Professor of International Economics, Graduate Institute, Geneva Director of CEPR

#### Globalisation changed around 1990

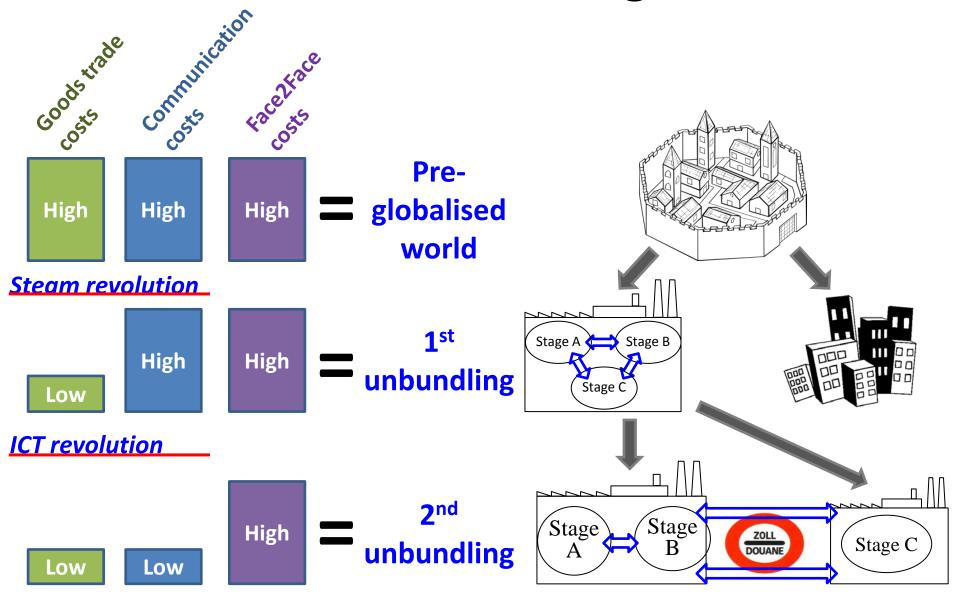


#### Nature of trade changed:

Intra-industry trade (IIT)

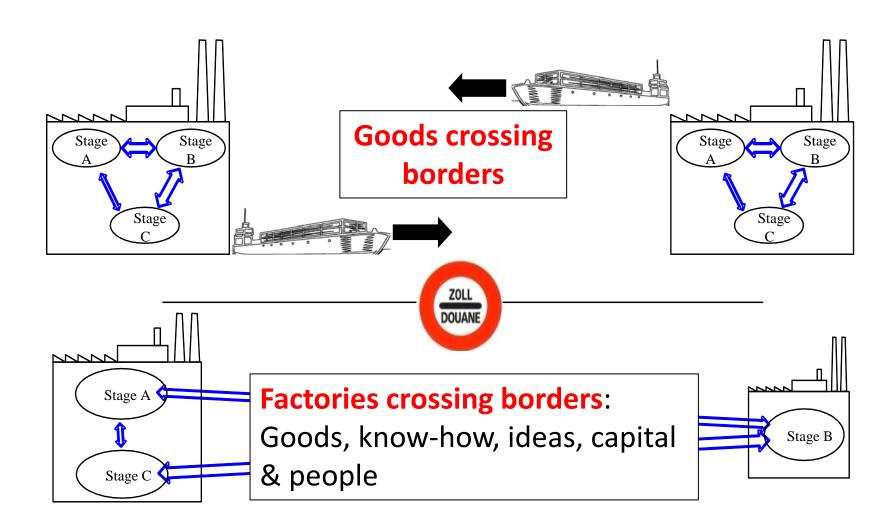


#### Globalisation: 3 cascading constraints

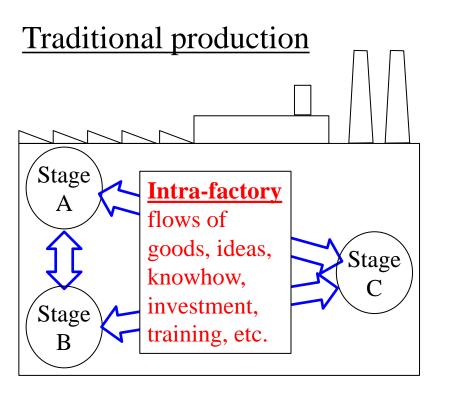


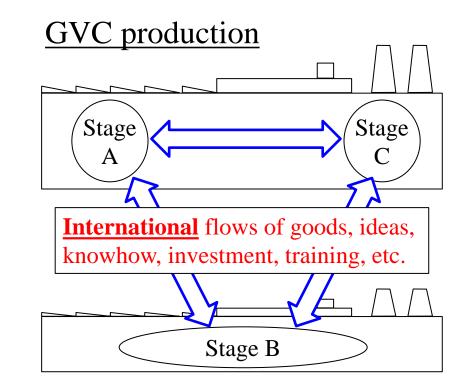
"2<sup>nd</sup> unbundling": 3 basic differences

## #1: Trade is not just "Goods crossing borders", also "Factories crossing borders"



#### Why it matters: Technology boundaries





## #2: De-nationalised comparative advantage (Hi-tech goes to lo-wage)

Apple IIc made in Dallas area, 1980s: Apple's know-how + US labour



#### Apple's know-how + Chinese labour



## #3: Globalisation with "finer degree of resolution"

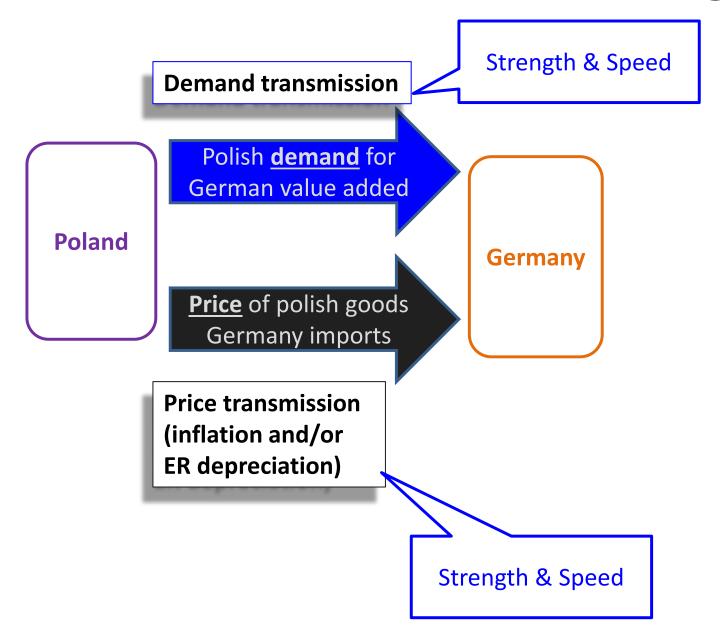
Globalisation's impact is:

- More sudden;
- More individual;
- More unpredictable;
- More uncontrollable.

# Some implications for central banking

International linkages changed by the GVC revolution

### International macro trade linkages

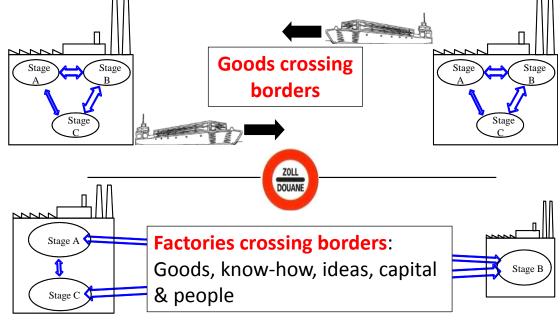


#### GVCs may matter for:

- 1. Measurement of strength of linkage.
- 2. Measurement of 3<sup>rd</sup> nation effects.

3. Speed of transmission (within firm as opposed to arm's length or market

transaction)



#### Some macro applications

- Measurement of effect real exchange rate.
  - Value added trade, not gross trade.
- Determine who is the ultimate purchaser of our value added exports for demand shocks.
  - Whose GDP shock boosts our demand?
  - Value added trade, not gross trade.
- International demand shock transmission.
  - New Twist: 'Bullwhip' effect
- Wage formation.
  - Sudden, individual, unpredictable => wage bargaining
- Global growth factors.

### Global growth: New Kuznets Cycle?

#### Old Kuznets Cycle

- 19<sup>th</sup> century:
  - North America: Abundant land & scarce labour;
  - Europe: Abundant labour & scarce land.
- Mass migration → Ag boom in US.
- Ag boom triggers broad growth & more migration.

#### New Kuznets Cycle

- Around late 1980s
  - 'South': Abundant labour & scarce knowhow;
  - 'North': Abundant knowhow & scarce labour;
- ICT revolution & global value chains → manufacturing boom in China and few others ('Rising 7').
  - But only where the GVCs operated.
  - Triggers broader growth:
    - R7 = 45% of world population.
  - Triggers commodity 'super cycle'

### **END**

Thank you for listening.

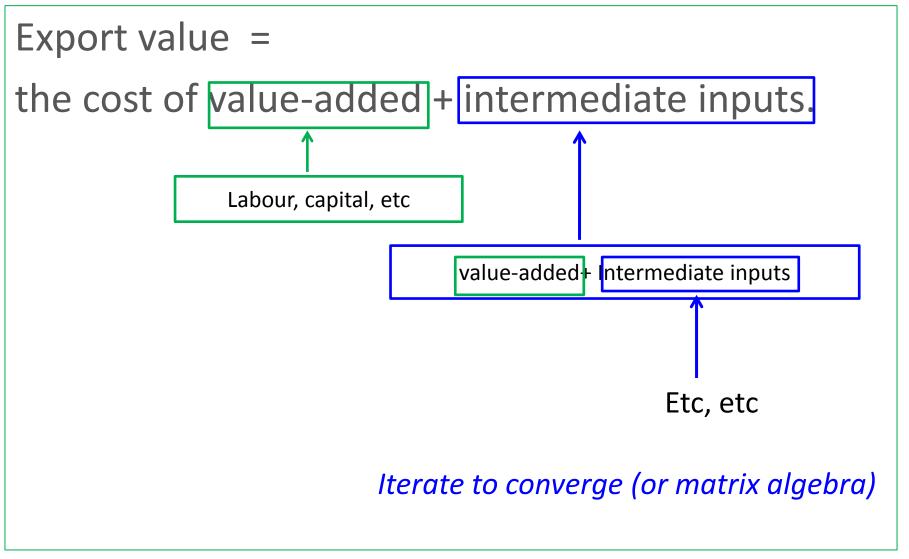
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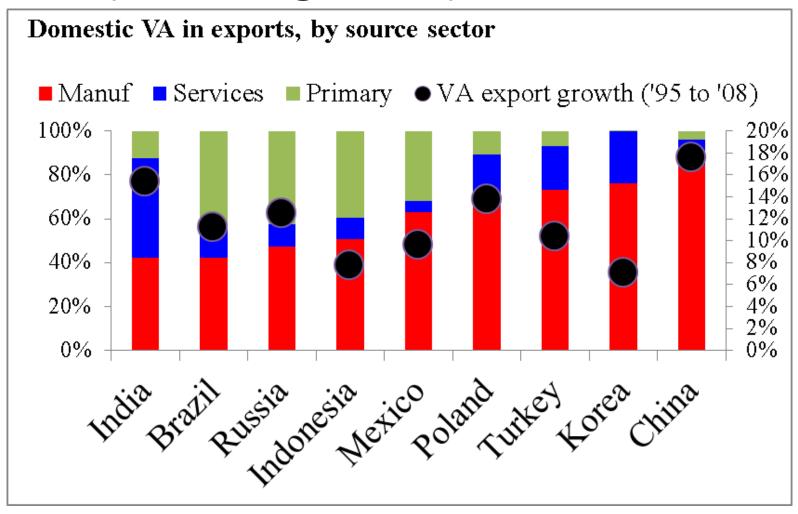
"Research-based policy analysis and commentary by leading economists"

### Extra slides for Q&A

#### Value-added trade vs 'gross' trade



## Source of Value-Added Export growth (10 GDP gainers) 1995-2008



#### Rethinking the commodity supercycle

Price of all commodities (10 year average rate of return)

At no time in the last 200 years have commodity prices risen as fast and as high as in the last decade without a sharp decline

