



Comments on L. Caliendo, M. Dvorkin & F. Parro "Trade and Labor Market Dynamics"



by Jota Ishikawa







What does this paper do?

- Developing a dynamic general equilibrium model with multiple sectors and regions to analyze the dynamic effects of trade shocks on labor markets and welfare
- Quantifying China's trade shock (i.e. increased import competition from China) to U.S. labor markets and U.S. welfare



Contributions

Model building

A dynamic model with multiple countries & sectors and frictions

Methodology

No need to estimate the fundamentals of economy for calibration

Calibration

China's trade shock to U.S. economy with 50 U.S. states, 37 other countries, and 22 sectors ³



Model

- Multiple locations (countries) & sectors
 N regions & J sectors in each region
- Continuum intermediate (IM) goods and a single final (F) good in each sector
 - F goods: non-traded → Consumption over local F goods
- 2 primary factors: labor & local structures
 Workers: mobile across markets with costs



Model

- Perfect competition
- IM-goods production (EK structure)
 - Labor + structures + F goods in that region
- F-goods production
 - Assembled from both domestic & imported IM goods
 - Iceberg trade costs for imports



Results

Quantification of changes in employment & welfare

- Losers & winners
 - Losers: Import competing sectors
 - **Winners:** Sectors using cheaper IM goods
- Aggregate welfare gains



FIG. 2: The Evolution of Employment Shares

Transition to new steady state





\$100 million (億ドル)

米国の対中貿易額 Trade between US and China



出所:Internetional Trade Centre





注:データはいずれも2011年。



米国

17%

香港

14%

日本

8%

台湾

7%

米国

7%

中国

7%

ドイツ

5%





オーストラ

リア

5%

4%



US share of imported products from China 米国の対中輸入(中⇒米) (2011年)







注:「TH」はタックスヘイブンの略。



Comments & questions

Restrictive assumptions Without agriculture, mining, etc. No trade in F goods No FDI Homogenous workers **No** capital Perfect competition

How much do the results depend on those assumptions?



Comments & questions

- Production factors
 - Heterogeneous workers
 - $\blacksquare Local structures? \rightarrow capital??$
- Any policy implications?
 - Intuitive results \rightarrow novel policy implications?



FIG. 2: The Evolution of Employment Shares

Transition to new steady state





Workshop on Aug 4

- International workshop on "trade costs" Speakers
 - James Anderson (Boston College)
 - Alan Deardorff (Michigan)
 - Dennis Novy (Warwick)
 - Andreas Moxnes (Oslo)
 - Yi Lu (National U of Singapore)
 - Treb Allen (Northwestern)