Discussion of: "The Cost of Non-Europe, Revisited"

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QMUL and CREI

EP Meeting, Vienna, October 4-5 2018

A Key Question

- what are the economic gains from the EU?
 - MVZ (2018): quantification of the trade-related gains relative to alternative scenarios
- two stages:
 - gravity regressions
 - * regress bilateral trade on a number of FEs plus dummy for EU and other RTAs
 - ★ identify direct trade effect of EU
 - ★ both for goods and service
 - e counterfactual simulations
 - * use (1) + ACR (2012) formulas + estimates of trade elasticity
 - \star evaluate trade and welfare effects of moving from EU to RTA or MFN
- additional counterfactuals
 - unilateral exit (Brexit), domino effects

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General Comments

great paper!

- important question
- very clean empirical analysis
- state-of-the-art quantitative approach
- very elegant

my comments

- gravity: pros and cons
- estructural approach: pros and cons
- I results: interpretation and beyond

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Gravity: Comments

- empirical analysis very solid and transparent
- bilateral trade explained by host of FEs
 - destination-time, origin-time, destination-origin
- and yet, EU has a large trade effect
 - triples trade
 - * effect much larger than what implied by fall in tariffs
- main advantages
 - EU dummy captures all aspects of integration
 - \star can identify the effects of various EU treaties
- limits of gravity:
 - results somewhat sensitive to estimation method (OLS vs PPML)
 - once you remove the EU dummy, all the FEs will change, but how?
 - cannot be used for counterfactuals

Counterfactuals: Pros

- structural model
 - turns the EU dummy into GE counterfactuals
 - ★ "exact hat algebra"
 - turns trade effects into welfare (GFTs)
 - ★ "trade elasticity"
- elegant
 - a microfoundation for gravity
- simple
 - Iow data requirement
 - just need to solve a simple system of equations
- quite general
 - holds across different workhorse trade models (ACR, 2012; Costinot & Rodriguez-Clare, 2014)

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Counterfactuals: Cons

- yet the "trade elasticity" is not estimated
- and model *is* restrictive
 - imports across firms/products are not Pareto
 - ★ can double the GFTs
 - * Head, Mayer & Thoenig (2014); Melitz & Redding (2015); Redding & Weinstein (2018)
 - distributions are not the same across countries
 - * 25% of US imports explained by differences in variances across origins
 - * Bonfiglioli, Crino' and Gancia (2018a,b), Redding & Weinstein (2018)
 - trade elasticity varies across sectors
 - ★ easy to accommodate, can triple the GFTs
 - * Caliendo & Parro (2015); Costinot & Rodriguez-Clare (2014), Ossa (2015)
 - some other missing factors
 - * pro-competitive effects, MNF and GVC, dynamic effects missing
- most likely, GFTs are a lower bound

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An Alternative Use for the Structural Model

- perhaps, there is an alternative use for the structural model
 - ▶ to *interpret the data* rather than to make quantitative predictions
- how?
 - by opening up the gravity equations
- what is inside the time-varying FEs?
 - the model can tell us:
 - * GDP, size, price indexes, globalization, infrastructure
- year by year, they capture all macroeconomic variables explaining trade flows
 - would be fascinating to look inside!
- can we use the model to do an ex-post quantification?
 - could be compared with observables to make it more credible

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Interpreting the Results

- welfare gain from EU over RTA
 - ▶ mean gain +6.6%
 - but large heterogeneity
- which countries gain the least?
 - GBR (2.3%), Greece (2.4%), Italy (2.8%)
 - ★ maybe the model is not so far off!!!
- lessons for Europe
 - the Euro had no trade effects \rightarrow is Europe going too far?
 - ▶ 2004 enlargement \rightarrow big gainers are entering countries
 - Cyprus (3.5%), Czech Republic (10.8%), Estonia (10.4%), Hungary (14.2%), Latvia (8.7%), Lithuania (6.4%), Malta (8.2%), Poland (6%), Slovakia (12%), and Slovenia (10.5%)
- maybe things could have been done differently...

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The Future of the EU

- domino effects after Brexit are small
 - but what if Greece and Italy exit?
- if EU collapses, what would be the real costs of Non-Europe?
 - probably far greater than 6.6%
- globalization cannot be stopped
 - will missed GFT grow?
- maybe not: despite temporary setbacks, markets have always grown
- but how?
 - before WWII, empires made markets
 - after WWII, trade agreements replaced empires
 - ★ Findlay & O'Rourke (2007), Gancia, Ponzetto & Ventura (2018)
- if the EU collapses, could a new age of economic imperialism follow?

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References

- Arkolakis, C., A. Costinot and A. Rodriguez-Clare (2012) "New Trade Models, Same Old Gains?" American Economic Review, 102(1), 94-130.
- Bonfiglioli, A., R. Crino' and G. Gancia (2018). "Firms and Economic Performance: A View from Trade," CEPR DP 12829
- Caliendo, L. and F. Parro (2015). "Estimates of the Trade and Welfare Effects of NAFTA" Review of Economic Studies, 82(1), 1-44.
- Costinot, A. and A. Rodriguez-Clare (2014). "Trade Theory with Numbers: Quantifying the Consequences of Globalization" Handbook of International Economics, 197-261, Elsevier.
- Findlay, R. and K. O'Rourke (2007). Power and Plenty: Trade, War and the World Economy in the Second Millennium. Princeton University Press.
- Gancia, G., G. Ponzetto and J. Ventura (2018). "Globalization and Political Structure" NBER WP 22046.
- Head, K., Mayer, T., Thoenig, M., (2014). Welfare and trade without Pareto. American Economic Review 104 (5), 310–316.
- Melitz, M. and S. Redding (2015). "New Trade Models, New Welfare Implications," American Economic Review, 105(3): 1105–1146.
- Ossa, R. (2015). "Why Trade Matters After All," Journal of International Economics 97(2): 266-277
- Redding, S. and D. Weinstein (2018). "Accounting for Trade Patterns," Working Paper