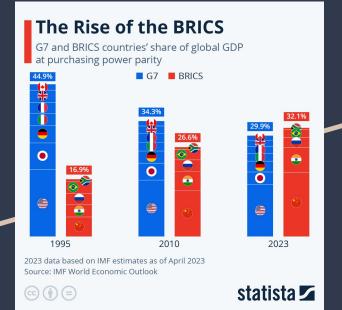
Brazil and BRICS: a Synthetic Controls Analysis

Giuseppe Peressotti, Haruna Minoura, McKayla Sharp, Samuel Adelusi

Background to BRICS

- BRICS & its objectives
- Economic power and geopolitical interests
- Why Brazil?







Top: Department of International Relations and Cooperation, South Africa. https://brics2023.gov.za Bottom: Council on Foreign Relations.

https://www.cfr.org/councilofcouncils/global-memos/brics-summit-2023-seeking-alternate-world-order

Left: Richter, F (2023, August 22). The Rise of the BRICS. Statista.

https://www.statista.com/chart/30638/brics-and-g7-share-of-global-gdp/

Research question and Hypothesis

"Did trade between Brazil and the other BRICS countries increase following the unionization of BRICS?"

Hypothesis:

Relative trade between Brazil and the other BRIC[S] countries increased following the unionization of BRIC[S].

Unit of Analysis and Data Collection

Comtrade & CEPII - datasets on trade over time

http://www.cepii.fr/CEPII/en/bdd_modele/bdd_model e.asp

https://comtrade.un.org/labs/data-explorer/

- Destination of exports
- Origin of imports
- Annual net \$ of trade

- Economic impact of BRICS unionization on Brazil
- Relative trade between Brazil & other BRICS countries

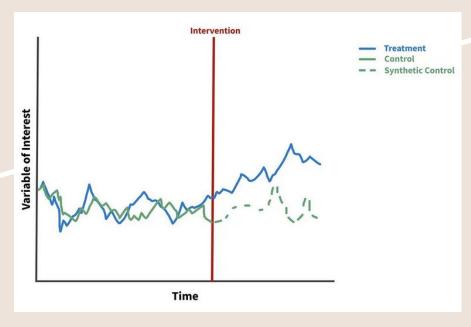
Methodology: Synthetic Controls

Case Study: Brazil

Intervention: creation of

BRIC(S)

Counterfactual: synthetic Brazil based on a pool of selected Latin American/South American countries

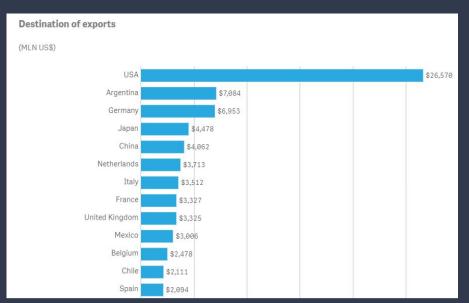


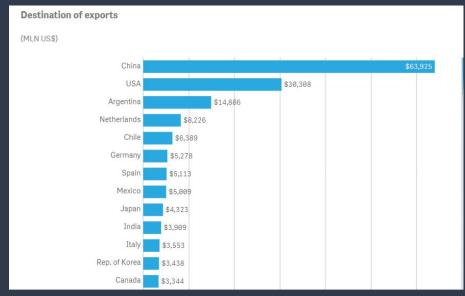
https://towards datascience.com/how-to-do-causal-inference-using-synthetic-controls-ab 435e 0228f1. The property of the control of the cont

Data Visualization

→ Line graphs: trends in exports/imports across time with country comparisons

→ Flow charts: changes in trade between Brazil & BRICS countries pre-BRICS & after unionization





Selected References

- Abadie, A., Diamond, A., & Hainmueller, J. (2010). Synthetic control methods for comparative case studies: Estimating the effect of California's tobacco control program. *Journal of the American statistical Association*, 105(490), 493-505.
- Council on Foreign Relations. (2023, August 31). The BRICS Summit 2023: Seeking an Alternate World Order?
- https://www.cfr.org/councilofcouncils/global-memos/brics-summit-2023-seeking-alternate-world-order
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- Richter, F (2023, August 22). The Rise of the BRICS. Statista. https://www.statista.com/chart/30638/brics-and-g7-share-of-global-gdp/