



Fickle Formulas

Globalization and the growing defects of international economic statistics

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Why do we measure our economies the way we do? www.fickleformulas.org





Background: The *Fickle Formulas* project



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My talk

- Based on multi-year research into negotiations of standards for balance of payments statistics
- Purposes
 1. Taking a step back
 2. Offering a different perspective on a key question for HS: **Why is it so difficult to reform statistical standards?**



Balance of payments statistics

- BOP stats
 - Trade, FDI, PFI, etc.
 - IMF issues guidelines
 - Our ‘eye’ on the global economy
 - Guide policy-making
 - Inform public debates
 - Raw material for quant research
 - Etc.
- Measurement quality of BOP data is critical
- But it is low...
 - ... and getting worse



Globalization and BOP statistics

- BOP statistics reflect post-WWII ‘national economy’-view of world economy
- At odds with contemporary transformations
 - “There is a growing appreciation that the statistical compilation tools and accounting frameworks designed and developed over the last 60 years ... may reflect a world that no longer exists” (Nadim Ahmad, OECD)



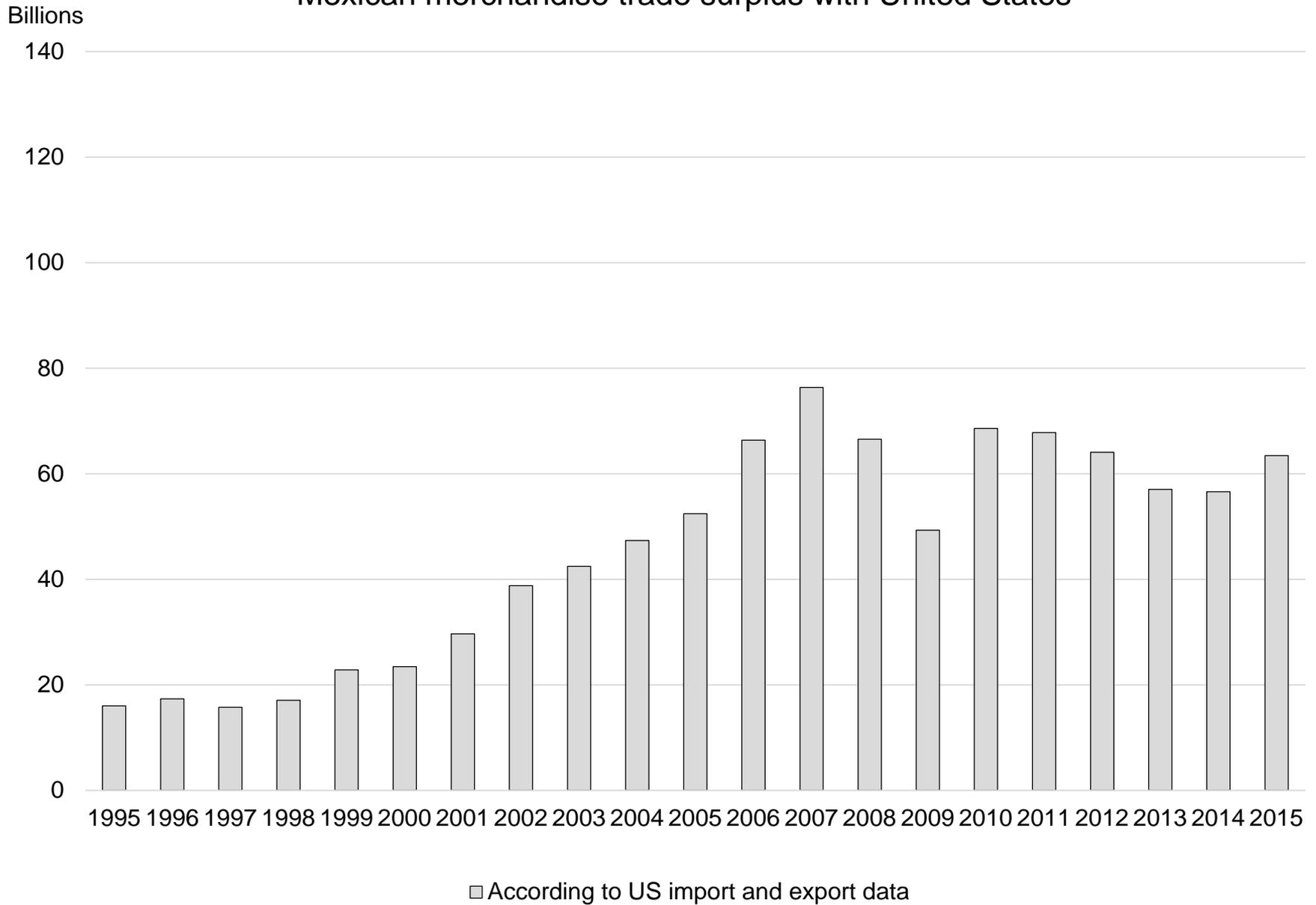
UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE
EUROSTAT
ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT

THE IMPACT OF GLOBALIZATION ON NATIONAL ACCOUNTS

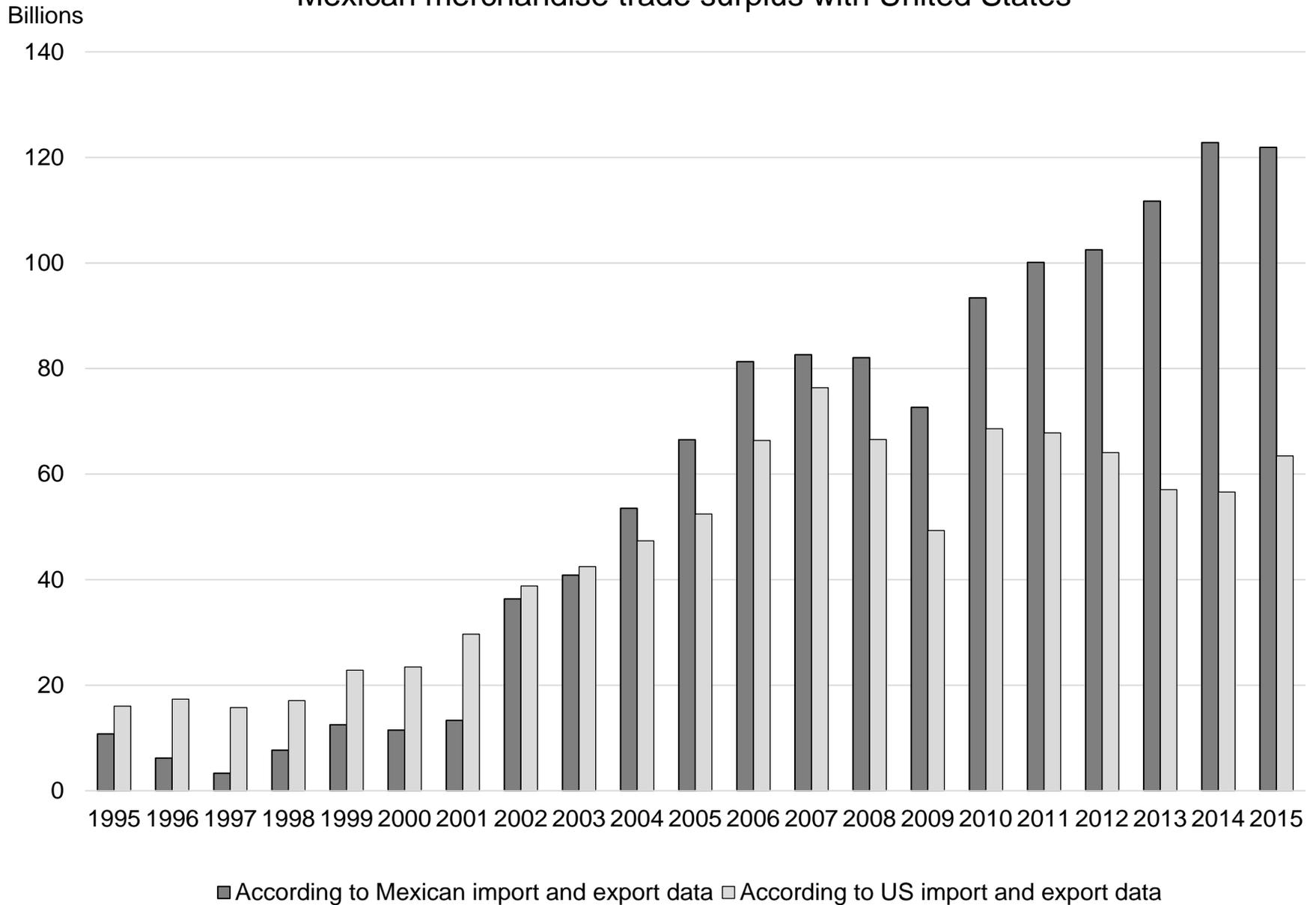


UNITED NATIONS

Mexican merchandise trade surplus with United States



Mexican merchandise trade surplus with United States





Sources of measurement problems

- Growing complexity of economic transactions
 - De-nationalization of production regimes and ownership structures; rise global value chains and intra-firm trade
 - > mis-attribution of geographical origin/destination
 - Digitization of economic activity = new products
 - > misclassification of product categories
 - Etc.
- The economy is changing rapidly, but statistical standards aren't

why?



The 4 Cs of conservative bias

- Logics in national accounting
 - Comparability
 - Continuity
 - Certitude
 - Coherence



Comparability

- Comparability requires uniformity
- Finding consensus is hard
- Practical difficulties to implement changes

“The standard frameworks take a while to develop. ... it takes time for these international discussions, but in the meantime the global economy is changing.” (Research interview with US BEA economists)



Continuity

- Change of standards disrupts time-series
- Creates path dependency: strong incentive to stick with existing standards even if they become less adequate



Certitude

- Objective ‘hard’ rules preferred over more flexible subjective judgments
 - Where is a product coming “from”?
 - Place of consignment vs. ‘origin’
 - Legal residence vs. ‘nationality’
 - How to classify hydromassage shower cabin?
- Data users want certainty; but certainty comes at a cost
 - Trade-off reliability vs. validity



Coherence

- National accounts as interlinked system

“[W]e do not only put countries together in a database so that we can say this is country A and this is country B. We actually integrate it in a framework, so that everything adds up with everything else”

(Interview with senior statistician at OECD)

- Avoid spillover effects

“[S]olving asymmetries in one item may create new asymmetries in another one” (BOPC 2016)



The resulting paradox

- Users expect statistics to...
 - draw on unambiguous sources [*certitude*],
 - allow for comparison over time [*continuity*] and across countries [*comparability*],
 - and they prize *coherence*—both internally and with holistic macroeconomic models
- The ambition of statisticians to meet these norms has undermined the ability of economic data to represent economic life more faithfully.



Thanks for your attention!

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