

Jay Breidt Colorado State University June 2013



- 2. Do the members recommend any additional coordination efforts to help maintain the critical relationships between output and price deflator data during the transition?
- 1. Will the benefits of using a NAPCS coding structure for all product detail outweigh the costs of implementation for the three agencies? My reaction is cautious yes.



Specific Worries:

- Morgan: Structural breaks, measurement inconsistencies, need to bridge from old system to new
- Friedman: Producer Price Index program will be impacted by loss of primary/secondary products



The cost to implement change of this type in the Economic Census is significant. In the absence of processing system changes due to changes in technology, the cost might exceed perceived benefits."



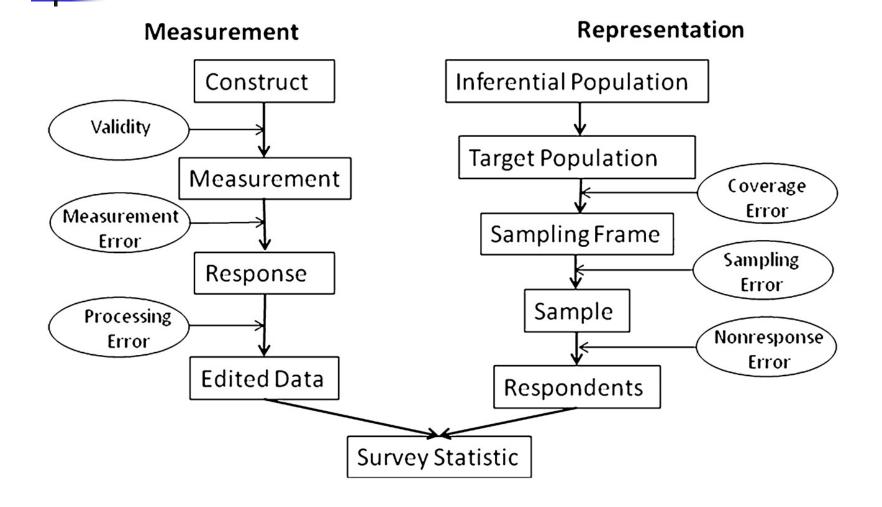
- Unįverse
- Fråme
- Sample
- Respondents
- Data
- Products
- Usės

- Coverage error
- Sampling error
- Nonresponse
- Measurement/processing error
- Processing/estimation error
- ·Lies, damned lies!

Errors of Non-Observation

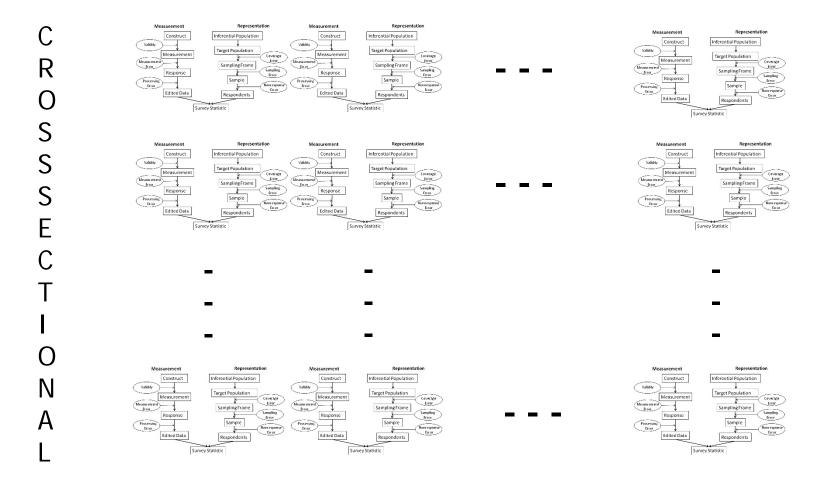
Errors of Observation

Total Survey Error



Total Statistical System Error

 $\rightarrow \rightarrow \rightarrow \rightarrow$ TEMPORAL $\rightarrow \rightarrow \rightarrow \rightarrow$





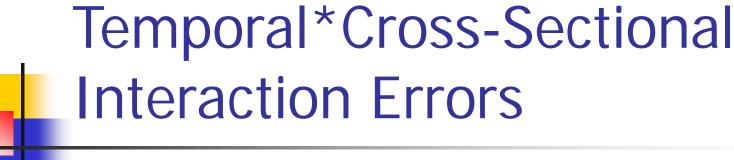
System errors across time

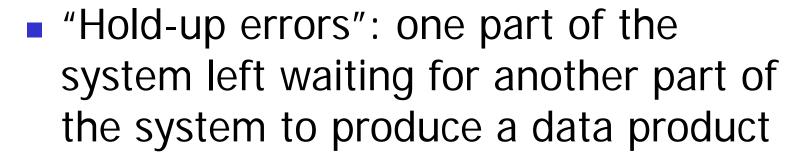
- Lack of timeliness
- Structural breaks
- Corrosion/aging/legacy errors
- Measurement drift
- Coverage drift
- . . .



System errors across censuses/surveys/agencies

- Incompatible constructs/definitions
- Measurement inconsistencies
- Coverage inconsistencies
- Processing errors





Will NAPCS benefits outweigh costs?

- Simpler, cleaner, more compatible systems can reduce errors and reduce costs
 - Some errors will increase (PPI structural break)
 - But errors need to be viewed system-wide: e.g., potential for automating subsystems that can talk to each other
 - Some cost savings are essential to maintain programs
 - Other savings might be converted into further error reductions
- Future system revisions will be less errorprone



- Daunting!
- Is the time till 2017 Economic Census sufficient?
- Possible to do parallel test in 2017 on sample basis for NAPCS to smooth transition?