Extracting Information

Issues of Measurement, Inference and Linkage

Key Ingredients for Valid Inference

1. Data generating process needs to be known

2. Framework already available for small data

3. Data access and linkage is essential part

1. Data Generating Process

Who? What? Why?

Who is missing? Who is counted repeatedly?
What is not said / measured? ..and why?
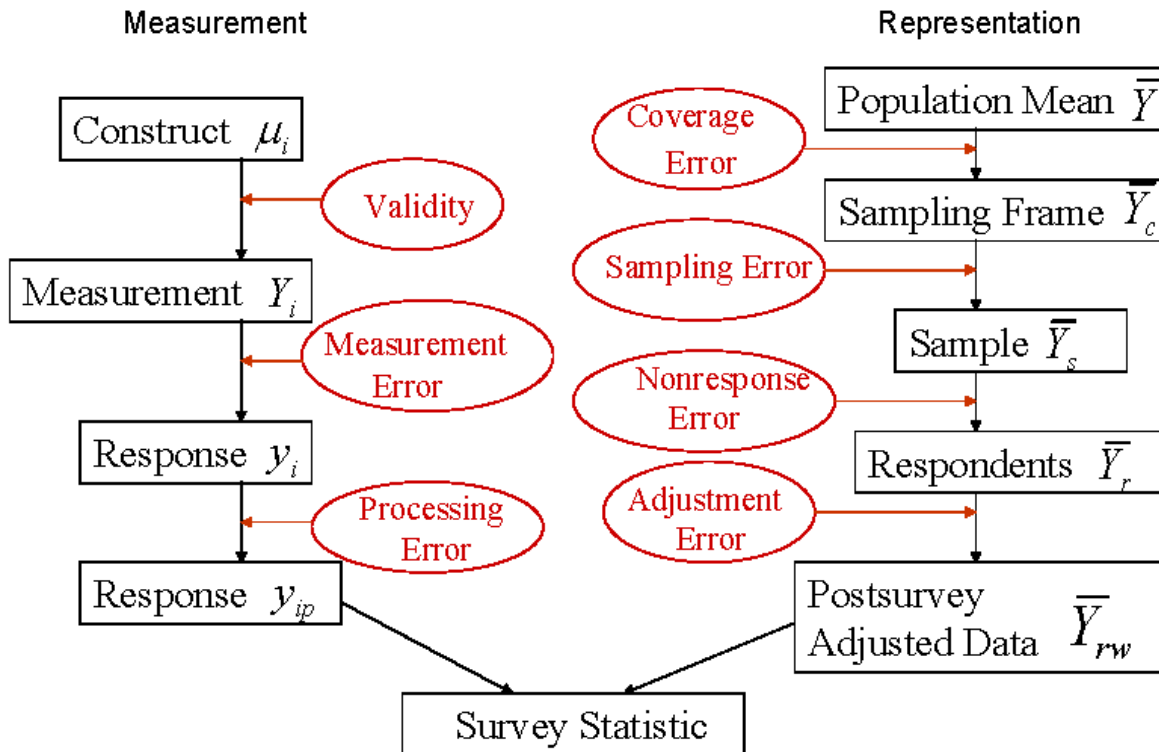
... designed or organic?

Groves et al. 2004

2. Framework

Total Survey Error

- Successful use in 'small data'

- Good starting point

- Development needed

Always in light of

- Research question

- Hypothesis

3. Access and Linkage

Essential to understand data quality and break-downs

Challenged by ... different privacy requirements
- Open issues of ownership
- Lack of trusted third parties

However .... likely leads to good data documentation
+ Reproducible research
+ Transparency

fkreuter@umd.edu   rpeng@jhsph.edu