# The Total Data Quality Framework By Brady T. West

### So What Is Total Data Quality?

- For both designed and organic/gathered data, Total Data
   Quality (TDQ) refers to a scientific framework for measuring and optimizing the overall quality of the data collected, along multiple dimensions.
- This framework allows for *careful thinking* about how to maximize the quality of the data collected in a given research study, and how to clearly measure the quality of the data collected.

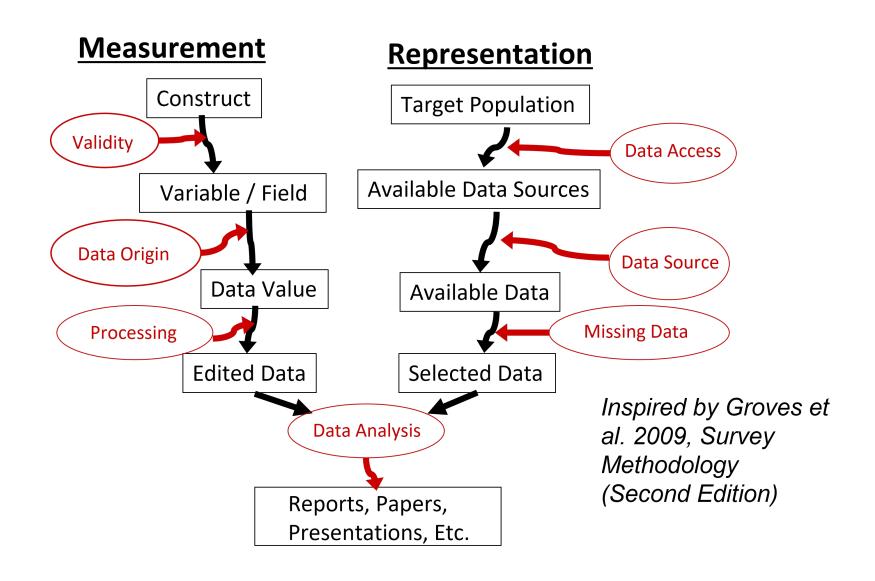
## **Dimensions of TDQ (1)**

- We generally divide dimensions of TDQ into two categories:
   measurement and representation
- Measurement dimensions concern the quality of the values on the variables that one wishes to analyze, and these include:
  - the validity of the variables of interest,
  - the origin of the values for the variables of interest, and
  - the procedures used to process the variables in preparation for analysis

## Dimensions of TDQ (2)

- Representation dimensions concern steps in data collection / gathering that may result in the ultimate data set looking different from the population of research interest.
- These include:
  - the process used to access the data,
  - the source of the data,
  - mechanisms producing missing data, and
  - techniques used for data analysis.

### Dimensions of TDQ: The Big Picture!



### What's Next?

 Next week, we will take a deep dive into the concepts of validity, data origin, and data processing as important measurement dimensions of TDQ!

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