

# Trust and Usability

Participants from:

- Statistical sciences/bio-statistician/Statistics Canada
- Database/data quality researchers
- User applications: BI from The Cooperators

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# Questions

1. What is your impression of the state-of-the-art in trustworthy data management?
2. Challenges inspired by 1.
3. How does data trust worthiness interact with other areas?

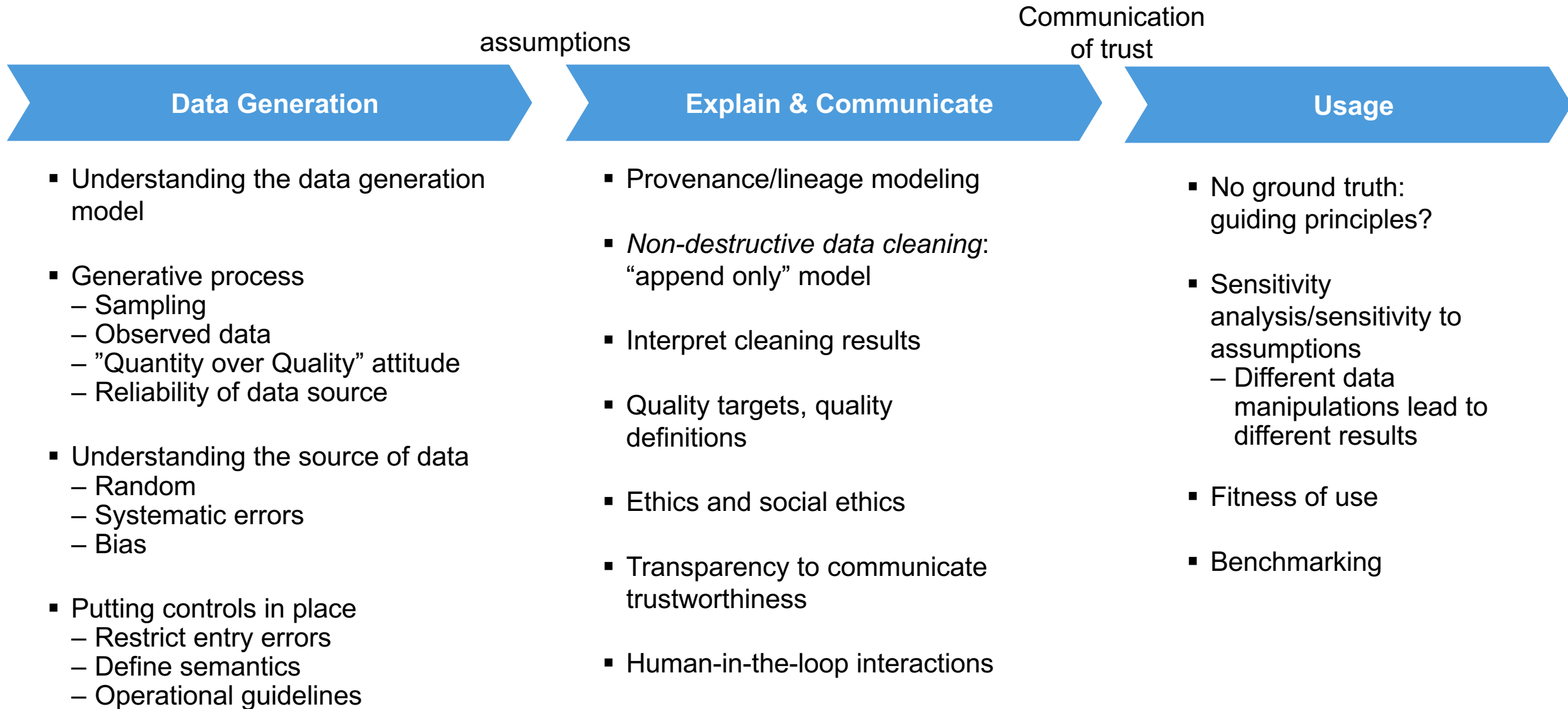
# State-of-the-Art: Challenges

- Piece-meal approach towards data cleaning
- Unstructured vs. structured data
- Data quality Framework/dimensions: accuracy, accessibility, timeliness, etc.
- Data quality is based on the usage of data
  - Varying attitudes: quantity over quality
- Statistical modeling: data checking and verification of errors
- Propagation of errors

# State-of-the-Art

- Bias
  - How can we measure the influence of bias in data analysis results?
- Master Data Management
  - Alignment of metadata and data
  - Data semantics (e.g., interpretation of null values)
- Open Data: source reliability, persistence, lack of documentation
- Timeliness and data currency
  - Temporal aspects of data quality

# Trust & Usability Pipeline



# Interactions

