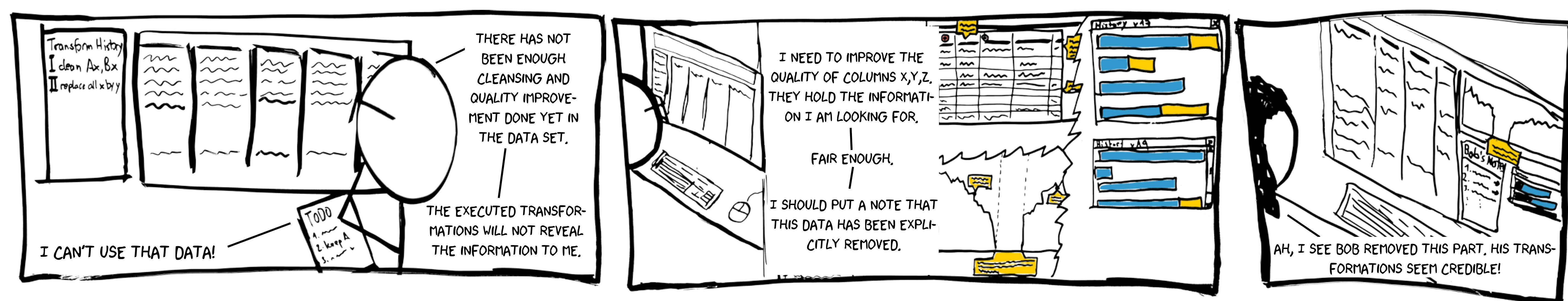


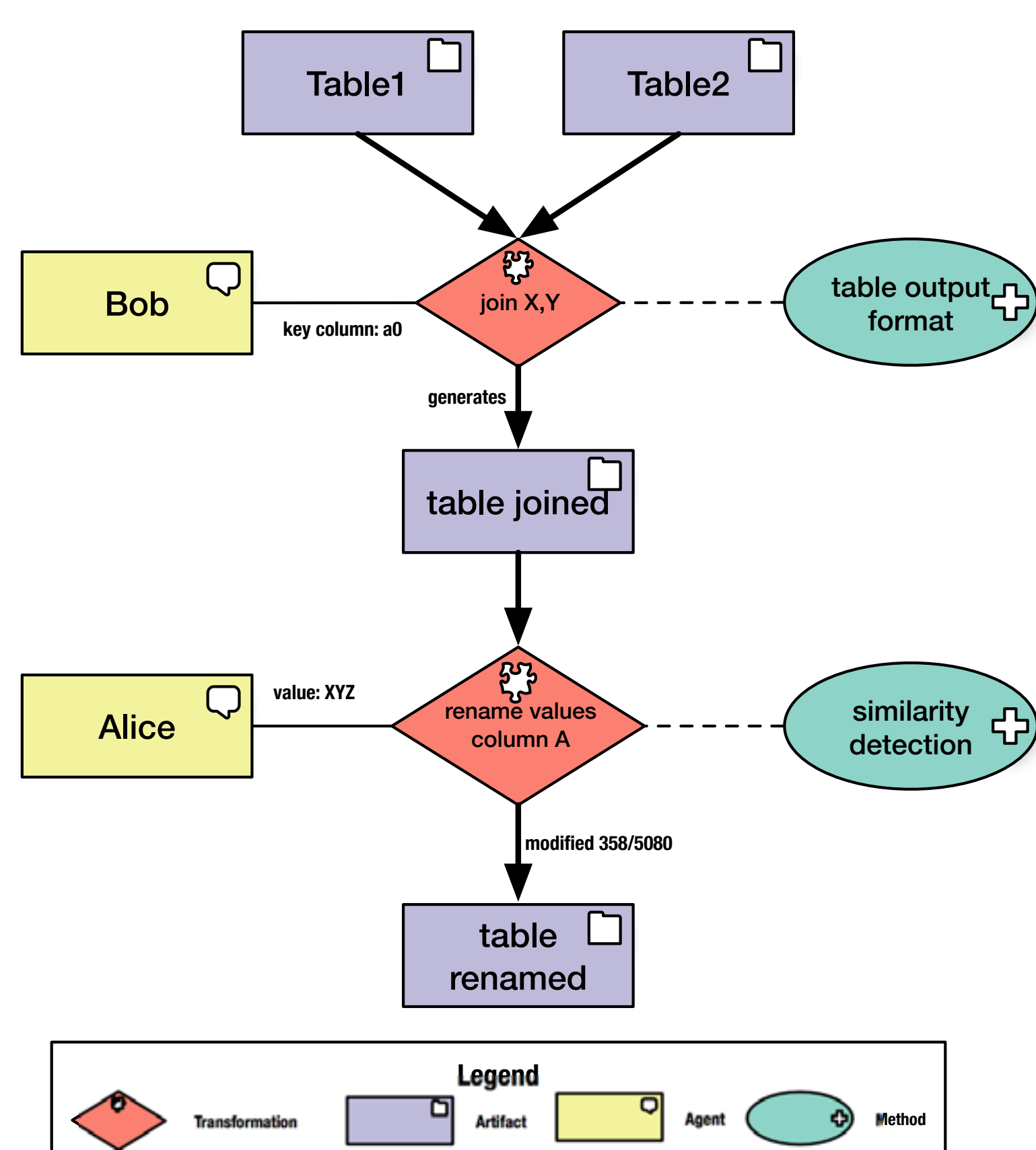
QualityTrails Data Quality Provenance as a Basis for Sensemaking

Problem: from data quality assessment to provenance

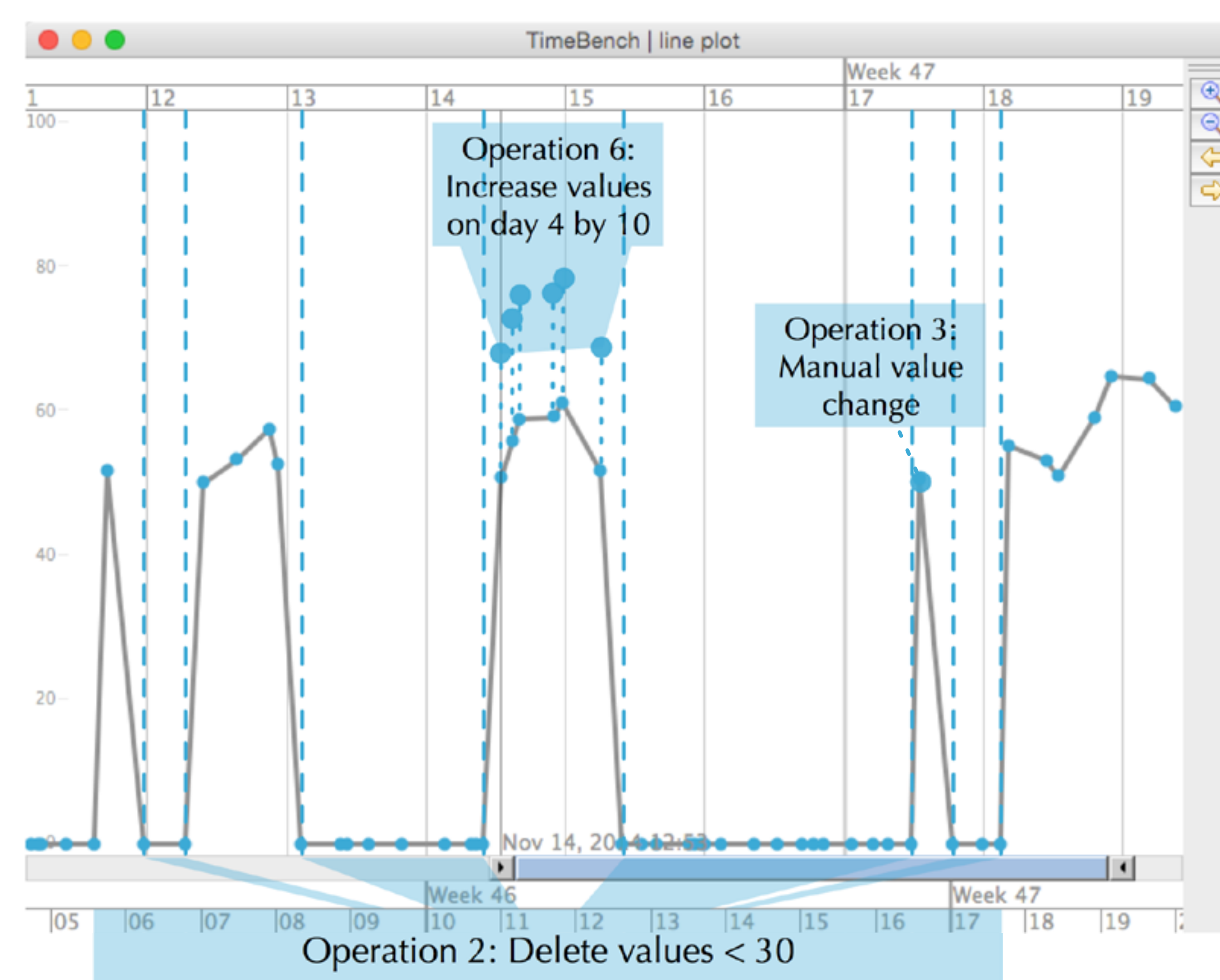


Challenges: from data quality provenance to sensemaking

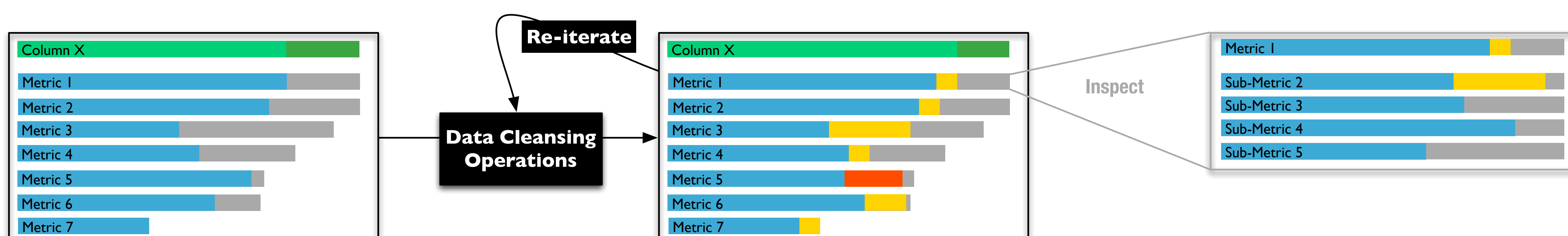
① Provenance from data cleansing operations
 Re-tracing implicit information from data creation and transformation history.



② Provenance from annotated data
 Information from data sources and data cleansing operations.



③ Provenance from quality metrics
 Logging computed quality metrics over time.



Outlook

Visualizing provenance information to **provide insight** in data quality assessment. Letting analysts **hypothesize** on the data.

Generating **multivariate charts** from continuous **quality metrics**. Extending these charts by **annotations** as **guiding-points** to log development over time.

Developing data quality control prototype to **aid** the user in his/her **sensemaking task** by **visually & textually** propagating provenance.