Christian Bors, Theresia Gschwandtner, Silvia Miksch Johannes Gärtner

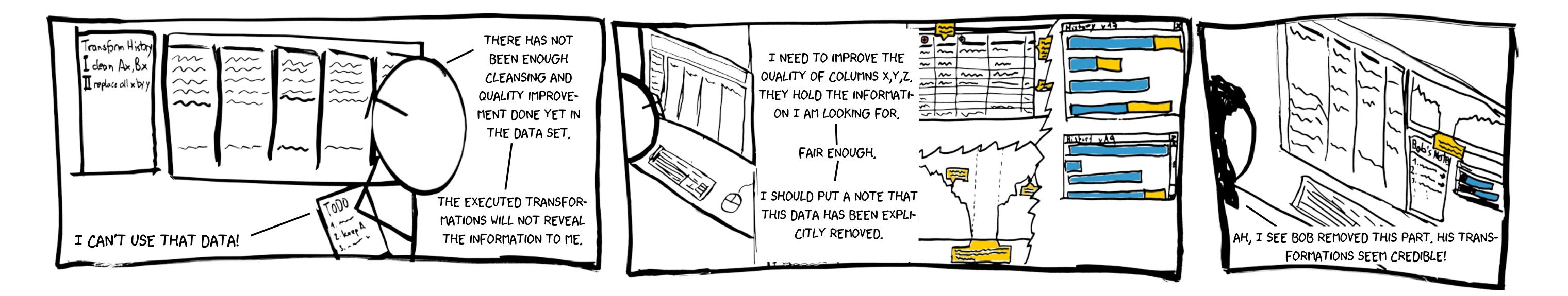
Vienna University of Technology, Information Engineering Group

XIMES GmbH, Vienna



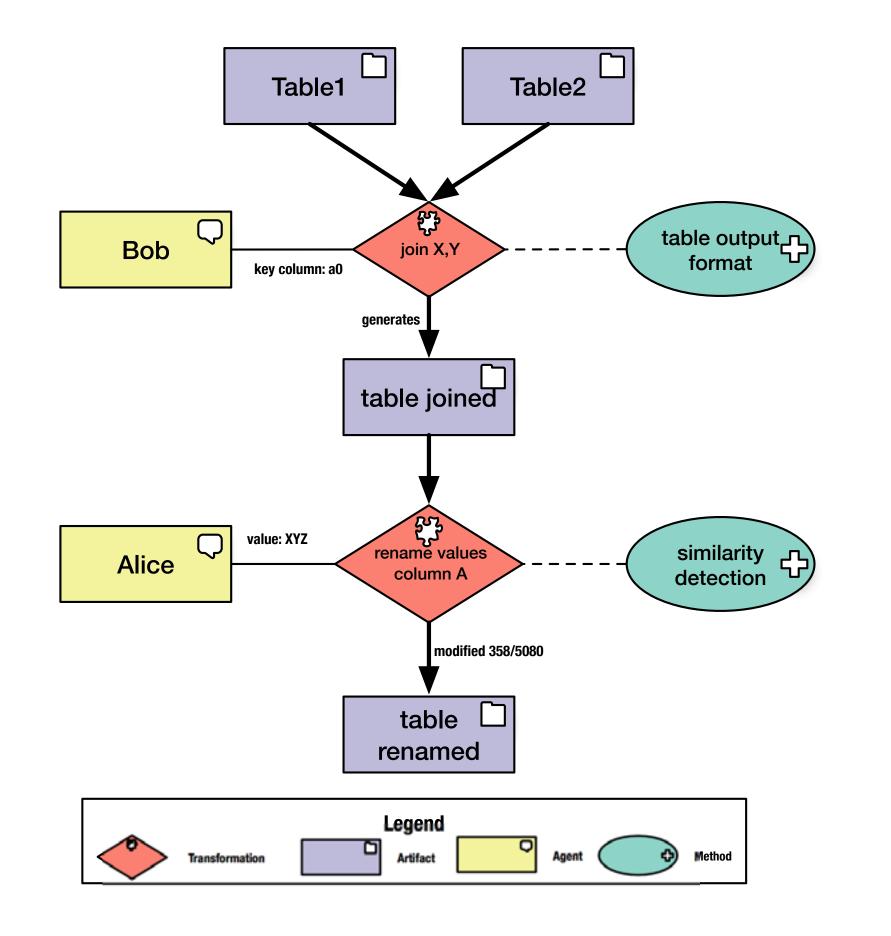
QualityTrails Data Quality Provenance as a Basis for Sensemaking

Problem: from data quality assessment to provenance



Challenges: from data quality provenance to sensemaking

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

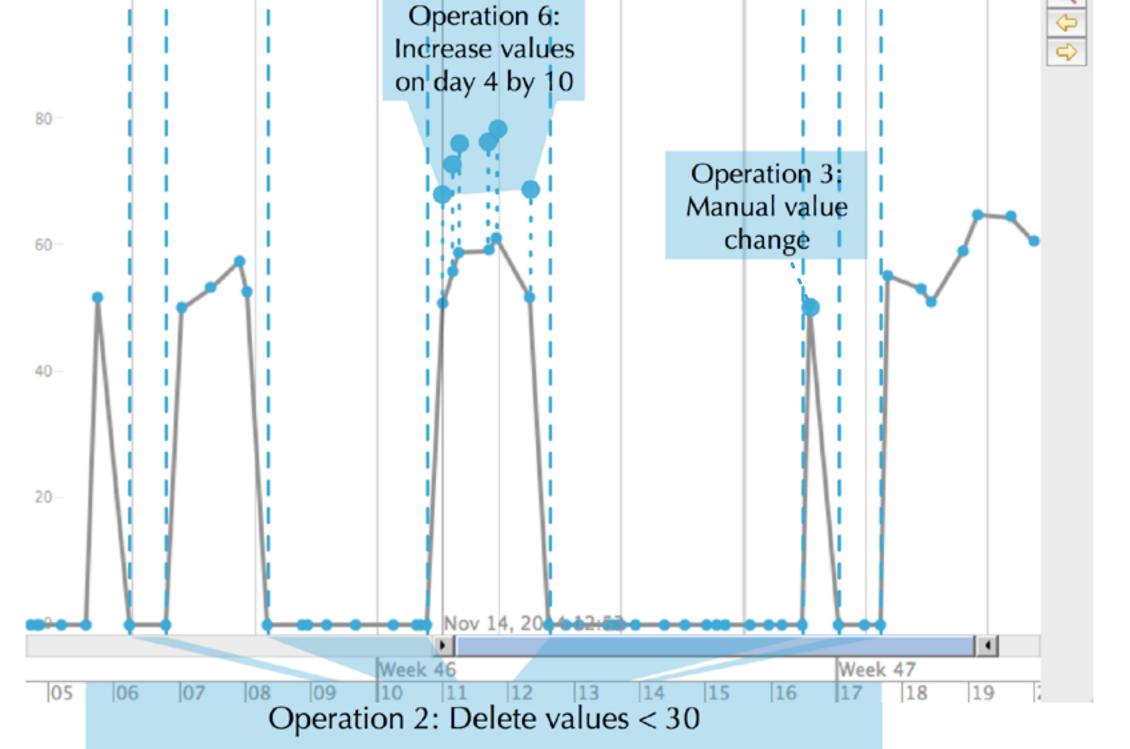




Provenance from annotated data

Information from data sources and data cleansing operations.





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

Re-iterate	Column X		Metric I
	Metric I	Inspect	Sub-Metric 2



time.

Sub-Metric 3
Sub-Metric 4
Sub-Metric 5

Outlook

Column X

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

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