

The Actions Taken To Enable The Administrative Records To Be Used By Subject Matter Units, The Difficulties Experienced And The Proposed Solutions In TurkStat

- › UNECE Conference of European Statisticians
- › Workshop on Statistical Data Collection
‘Resourceful Data Acquisition’
- › 10-12 October 2018, Geneva, Switzerland

Content

- › Reasons for Change in Business Statistics
- › Redesign of Business Statistics Production Based on Administrative Records
- › Difficulties Experienced in the Integration Process
- › The Operations Performed on Administrative Data before the Use of Subject Matter Units
- › Conclusion and Remarks

Reasons for Change in Business Statistics

- › Reporting burden
- › Difficulties in direct collection from respondents
- › Increasing costs
- › Developments in technology
- › Constantly growing data size and increasing demand for data
- › Difficulties in measuring economy through primary data sources
- › Measurement errors
- › Good practices in other national statistical offices

Redesign of Business Statistics Production Based on Administrative Records

Administrative Data Sources Integrated into the System

- › Revenue Administration
- › Social Security Institution

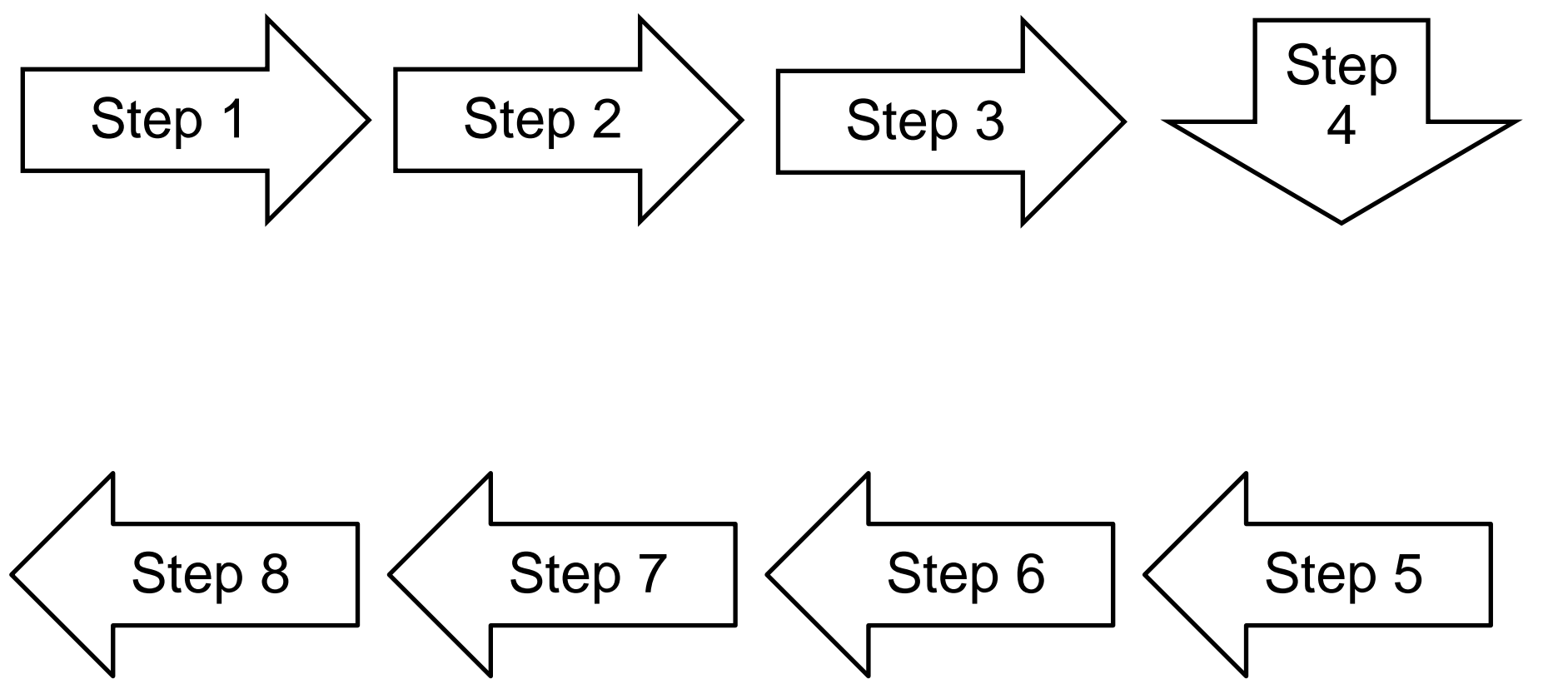
Domains Affected Most By the Process of Extending Use of Administrative Data

- › Business Registers
- › Short-Term Business Statistics
- › Annual Business Statistics
- › National Accounts

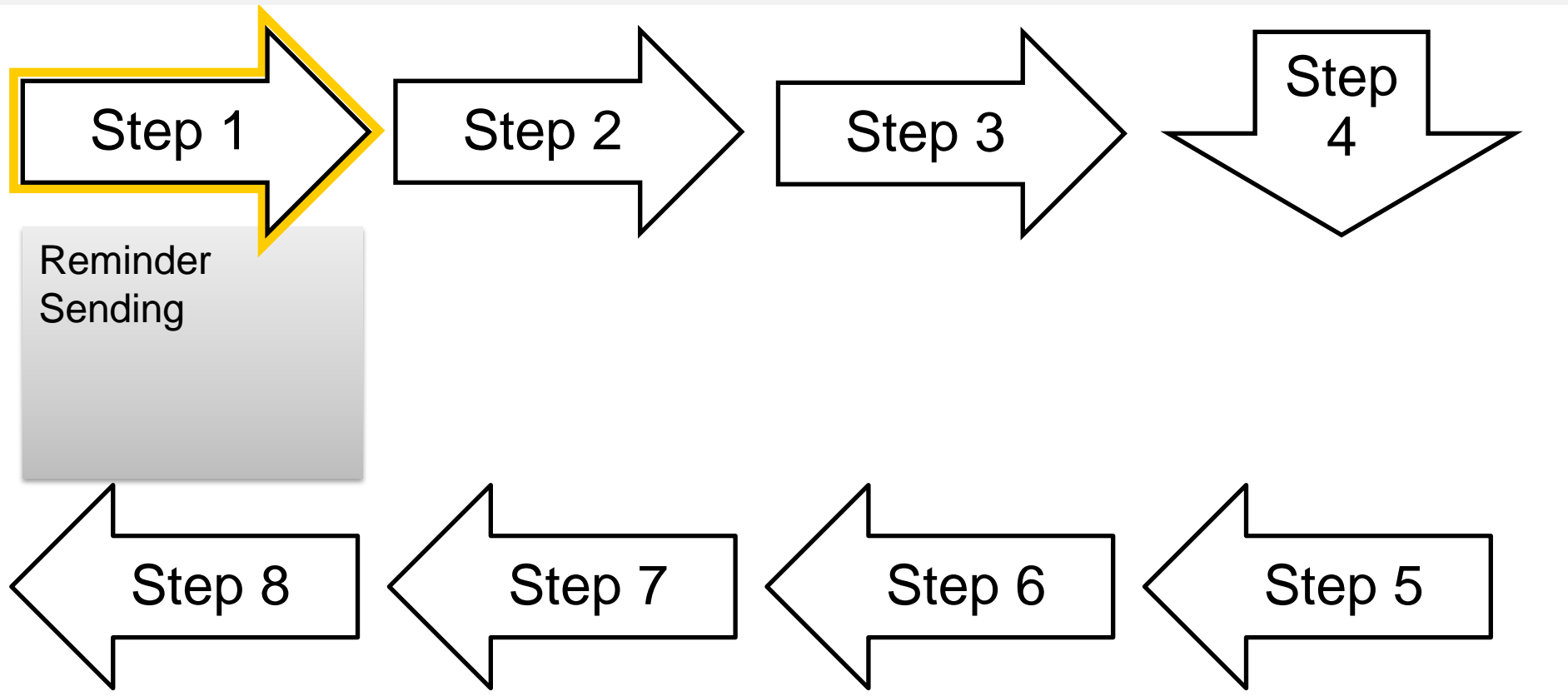
Difficulties Experienced in the Integration Process

- › Uncertainty (Technical and Methodological)
- › Data Storage
- › Lack of Metadata
- › New Employee Profile
- › Organizational Culture

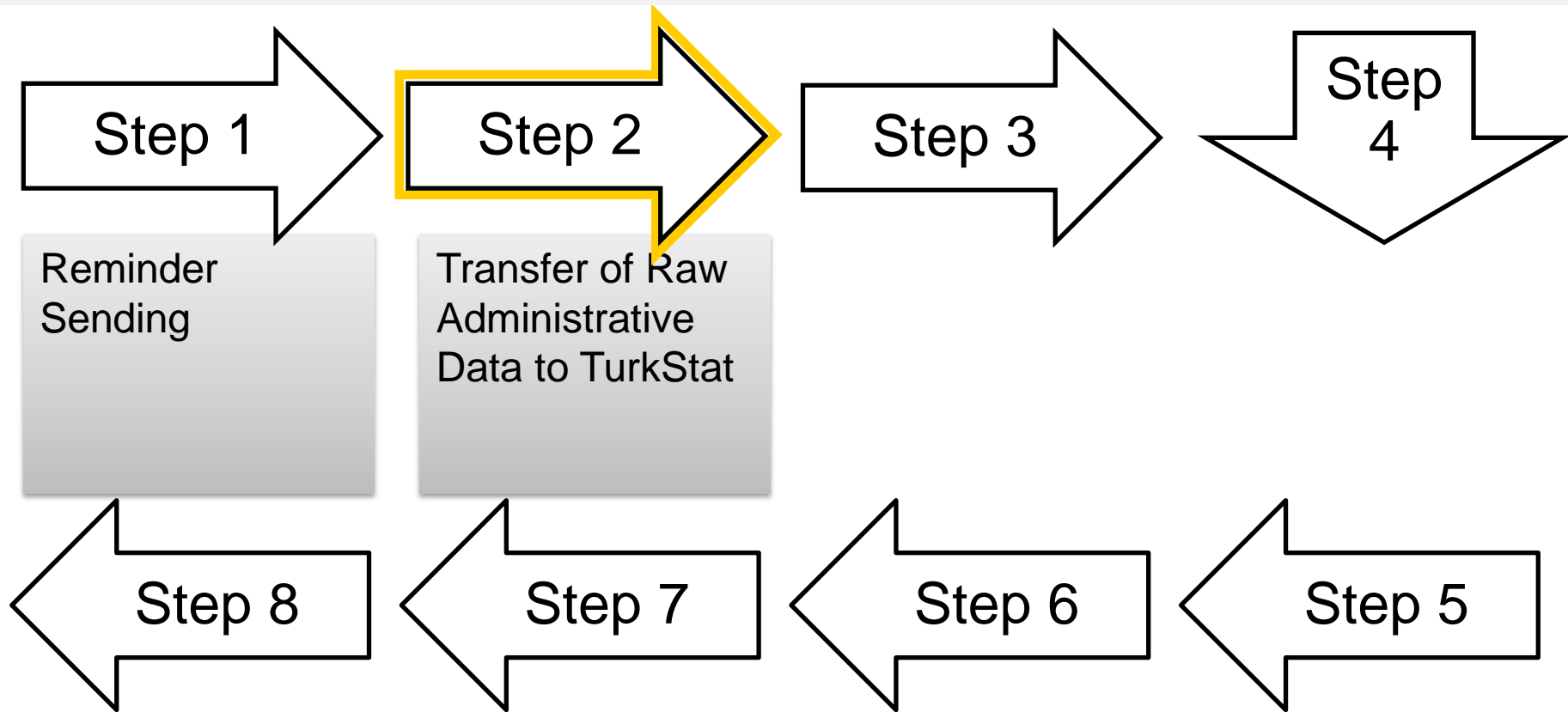
Operations Performed on Administrative Data (before the Use of Subject Matter Units)



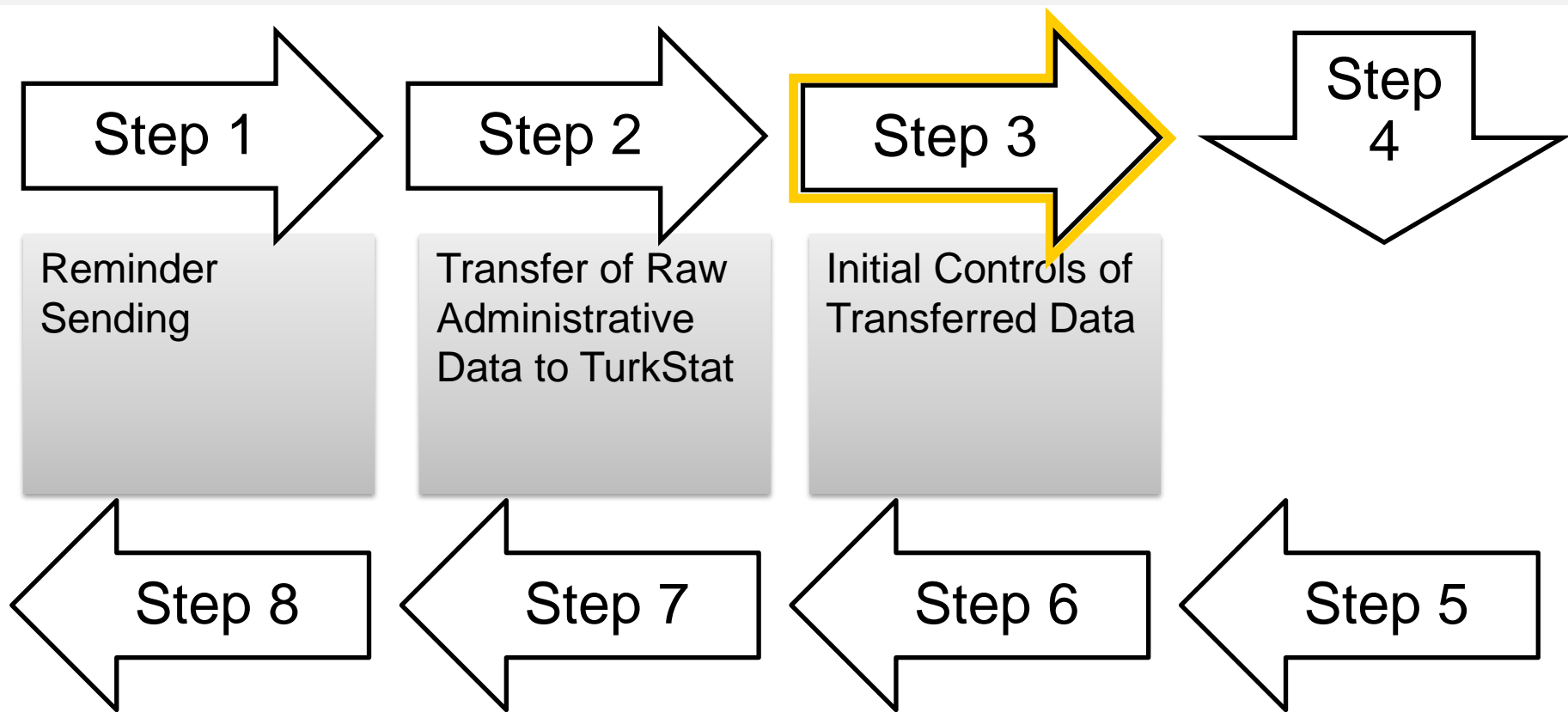
Operations Performed on Administrative Data (before the Use of Subject Matter Units)



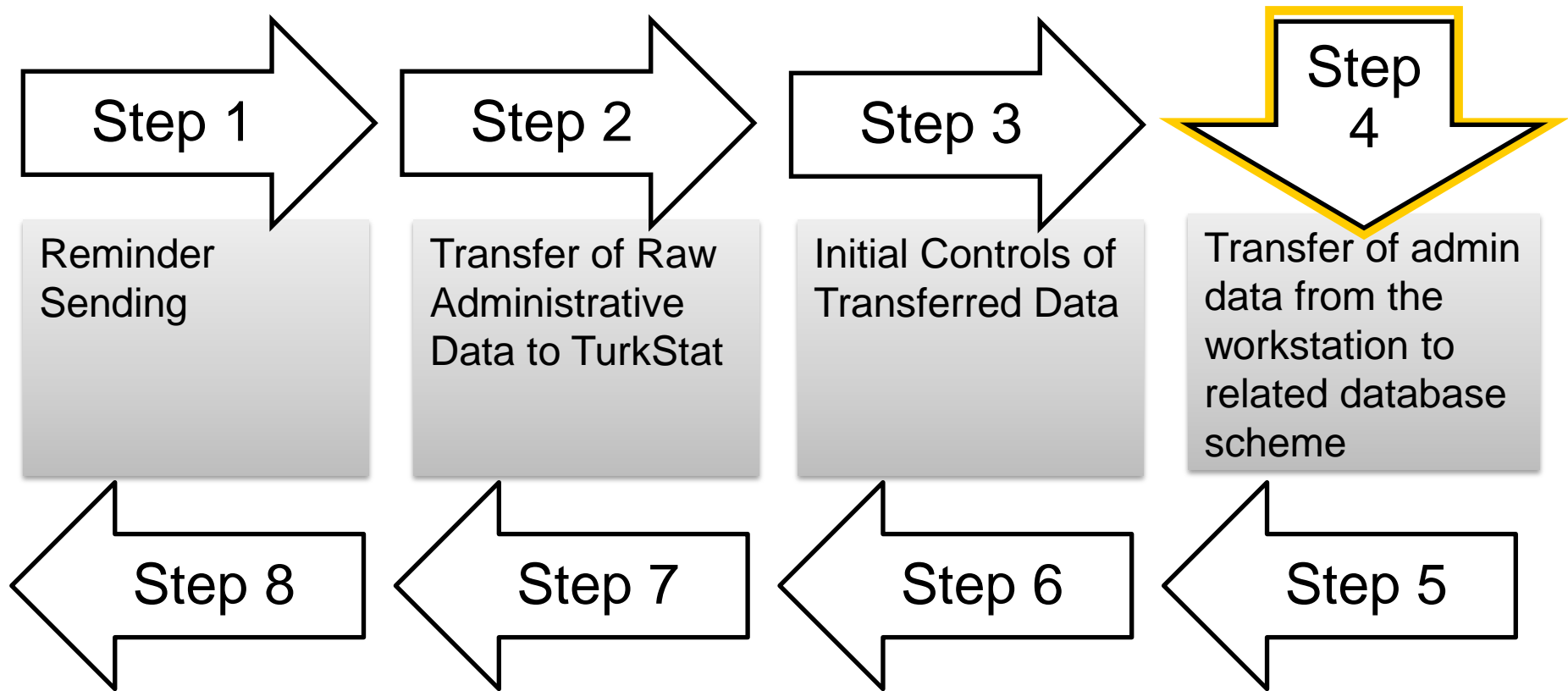
Operations Performed on Administrative Data (before the Use of Subject Matter Units)



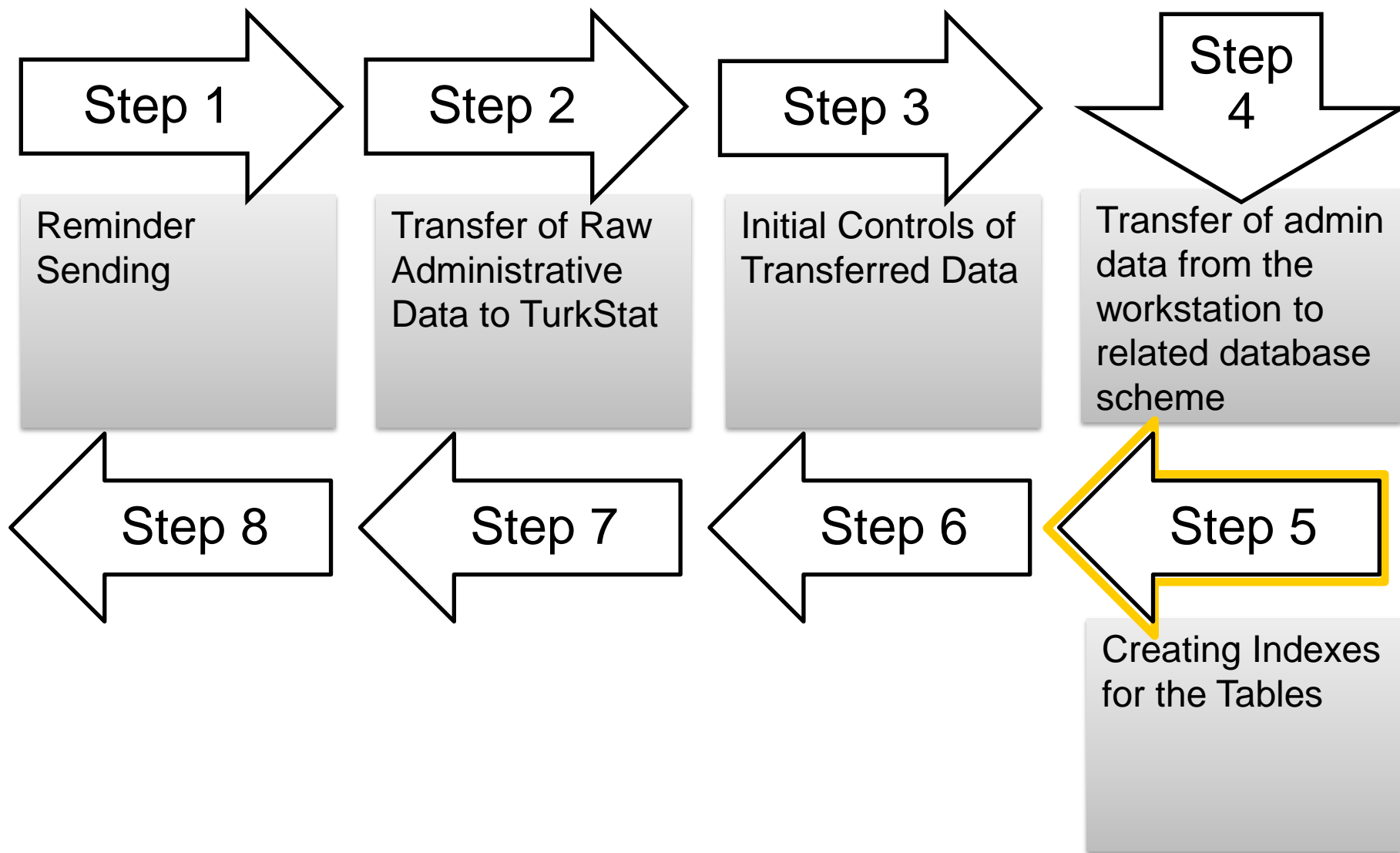
Operations Performed on Administrative Data (before the Use of Subject Matter Units)



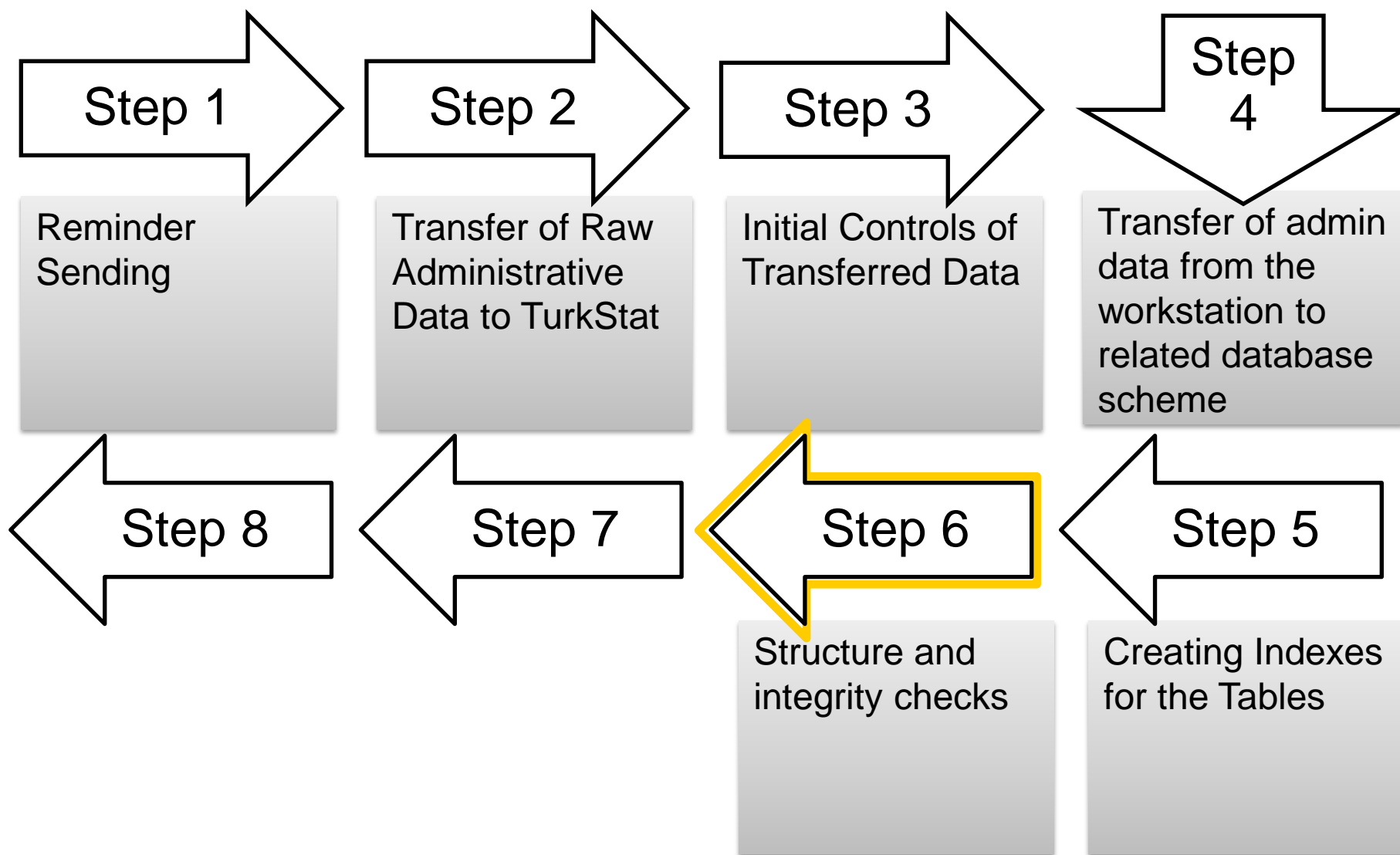
Operations Performed on Administrative Data (before the Use of Subject Matter Units)



Operations Performed on Administrative Data (before the Use of Subject Matter Units)



Operations Performed on Administrative Data (before the Use of Subject Matter Units)



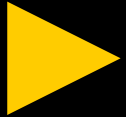
Structure and integrity checks

File
Sizes



Structure and integrity checks

File
Sizes

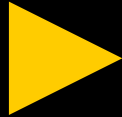


Number
of
tables
and
table
fields

Structure and integrity checks

File
Sizes

Table
and
field
names,
types
and
empty
fields

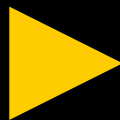


Number
of
tables
and
table
fields

Structure and integrity checks

File
Sizes

Table
and
field
names,
types
and
empty
fields

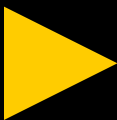


Number
of
tables
and
table
fields

Consistency
of row
counts of
tables in
overlapping
periods

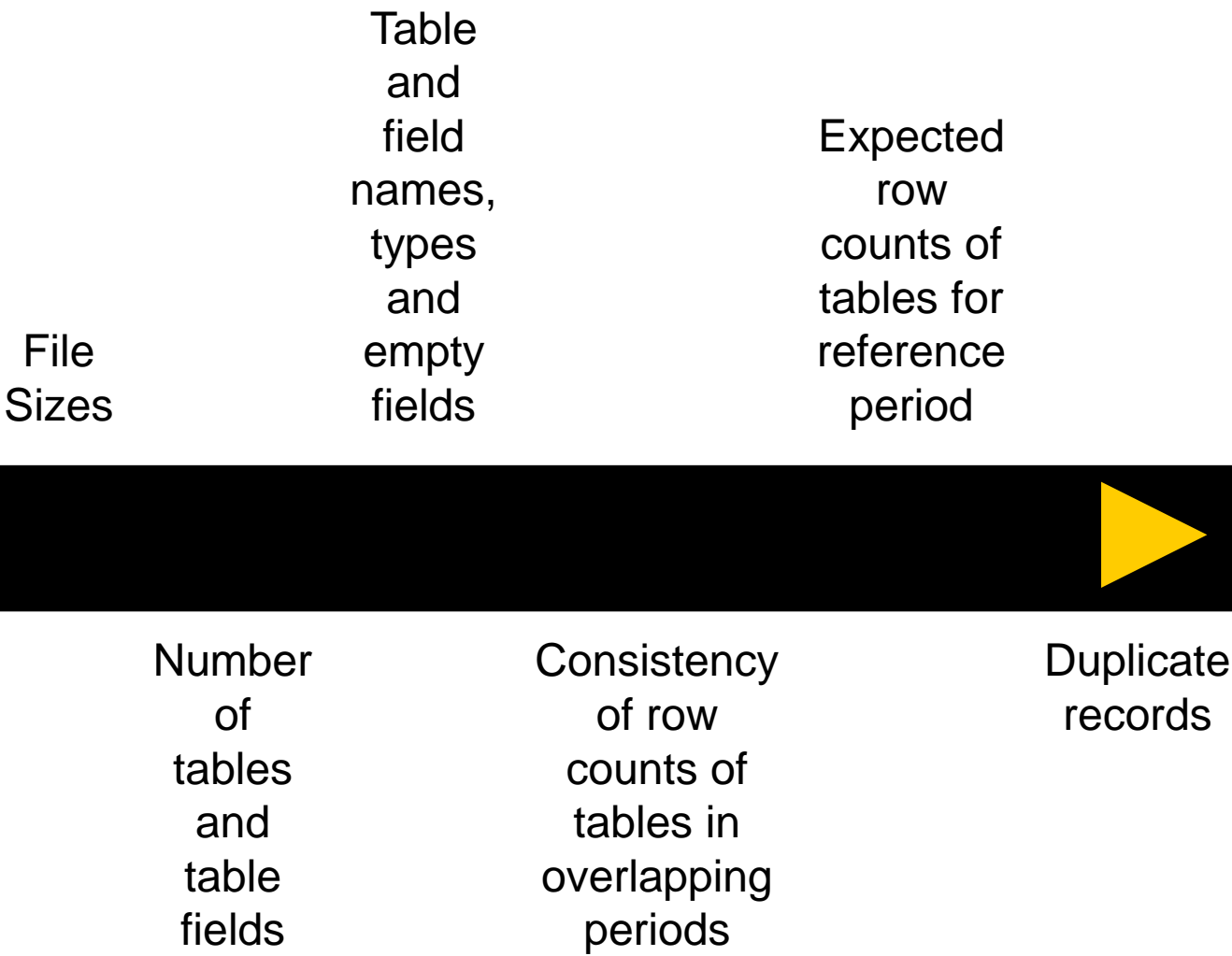
Structure and integrity checks

File Sizes	Table and field names, types and empty fields	Expected row counts of tables for reference period
---------------	--	---



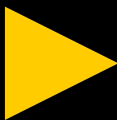
Number of tables and table fields	Consistency of row counts of tables in overlapping periods
--	---

Structure and integrity checks



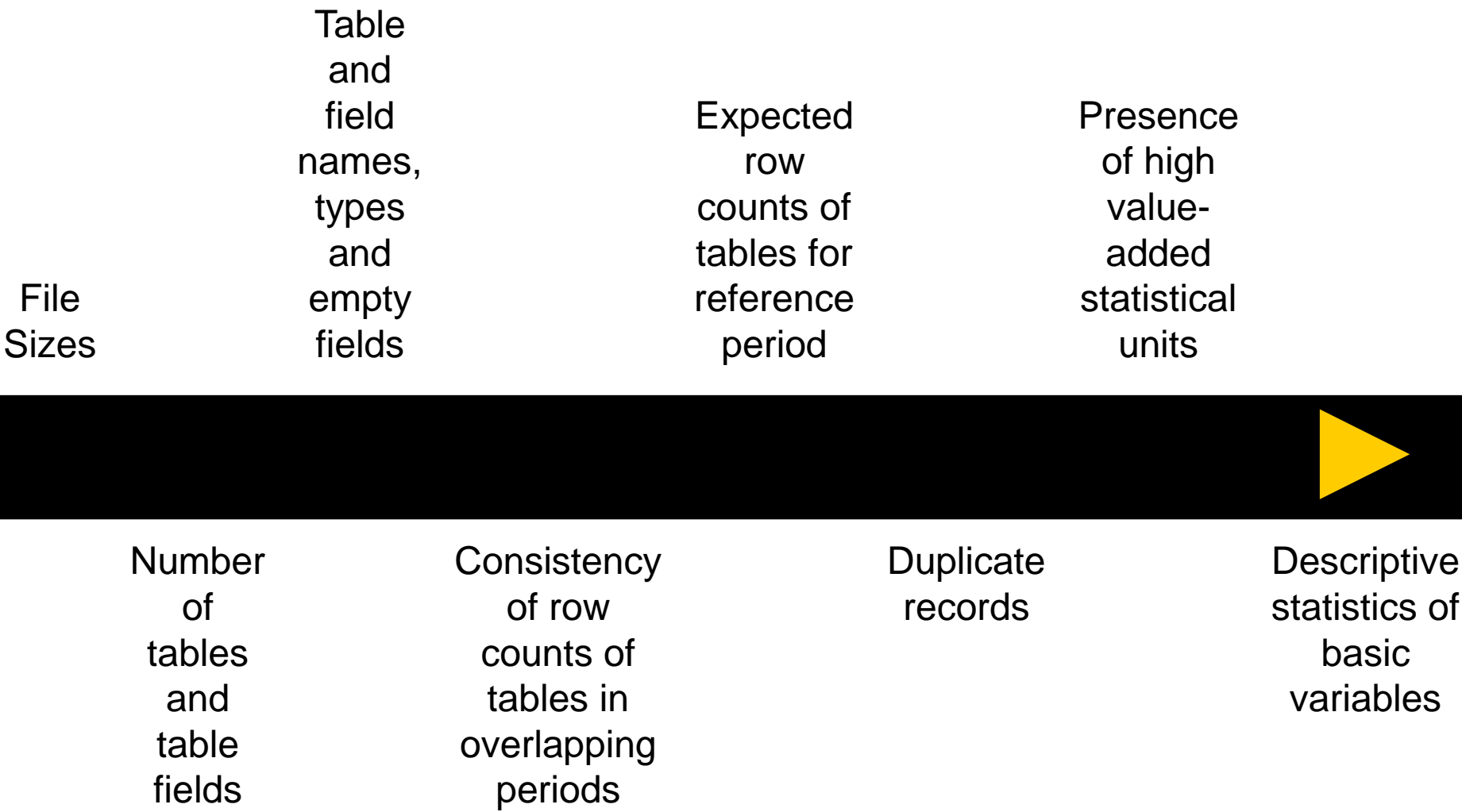
Structure and integrity checks

File Sizes	Table and field names, types and empty fields	Expected row counts of tables for reference period	Presence of high value- added statistical units
---------------	--	---	--

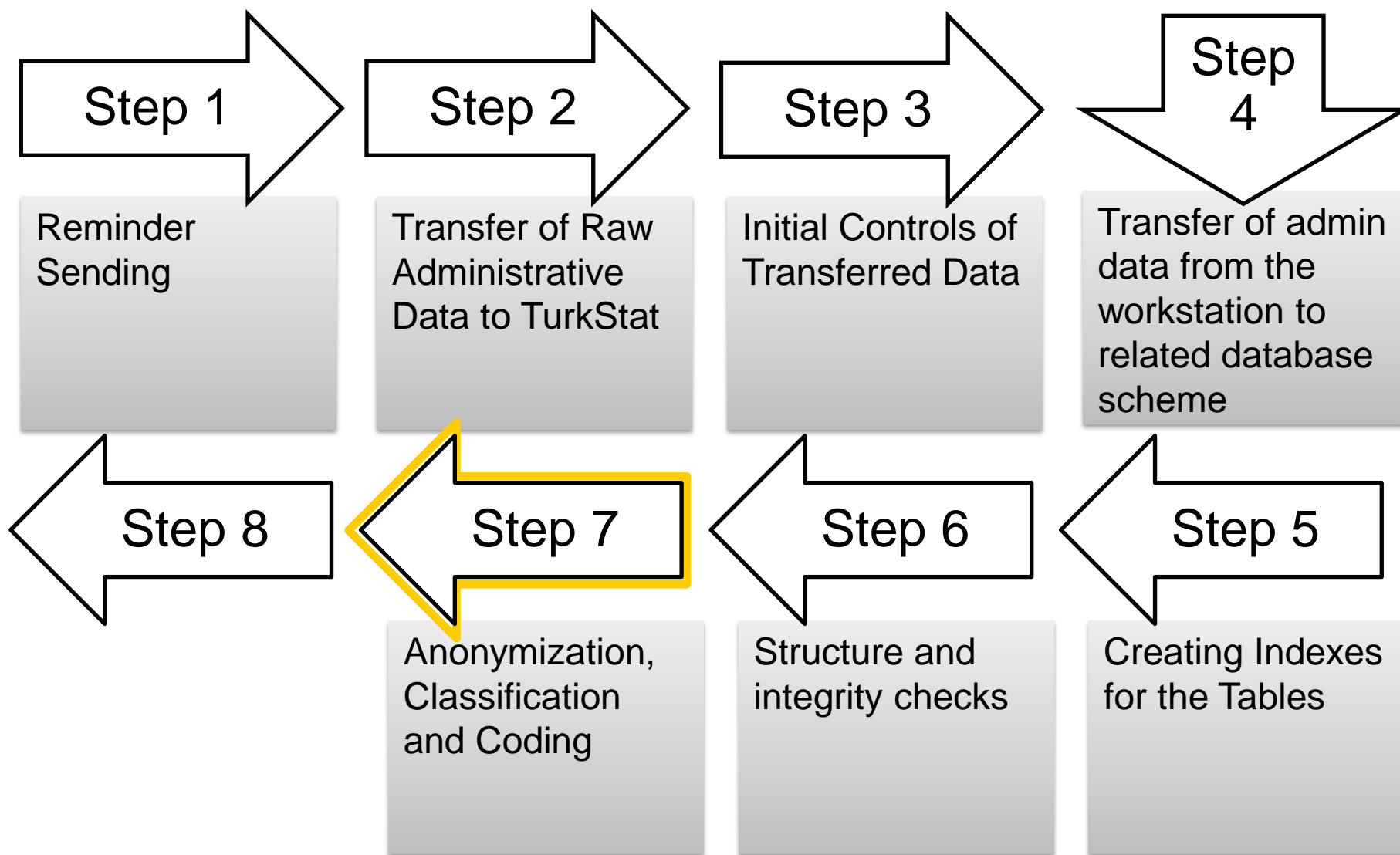


Number of tables and table fields	Consistency of row counts of tables in overlapping periods	Duplicate records
--	---	----------------------

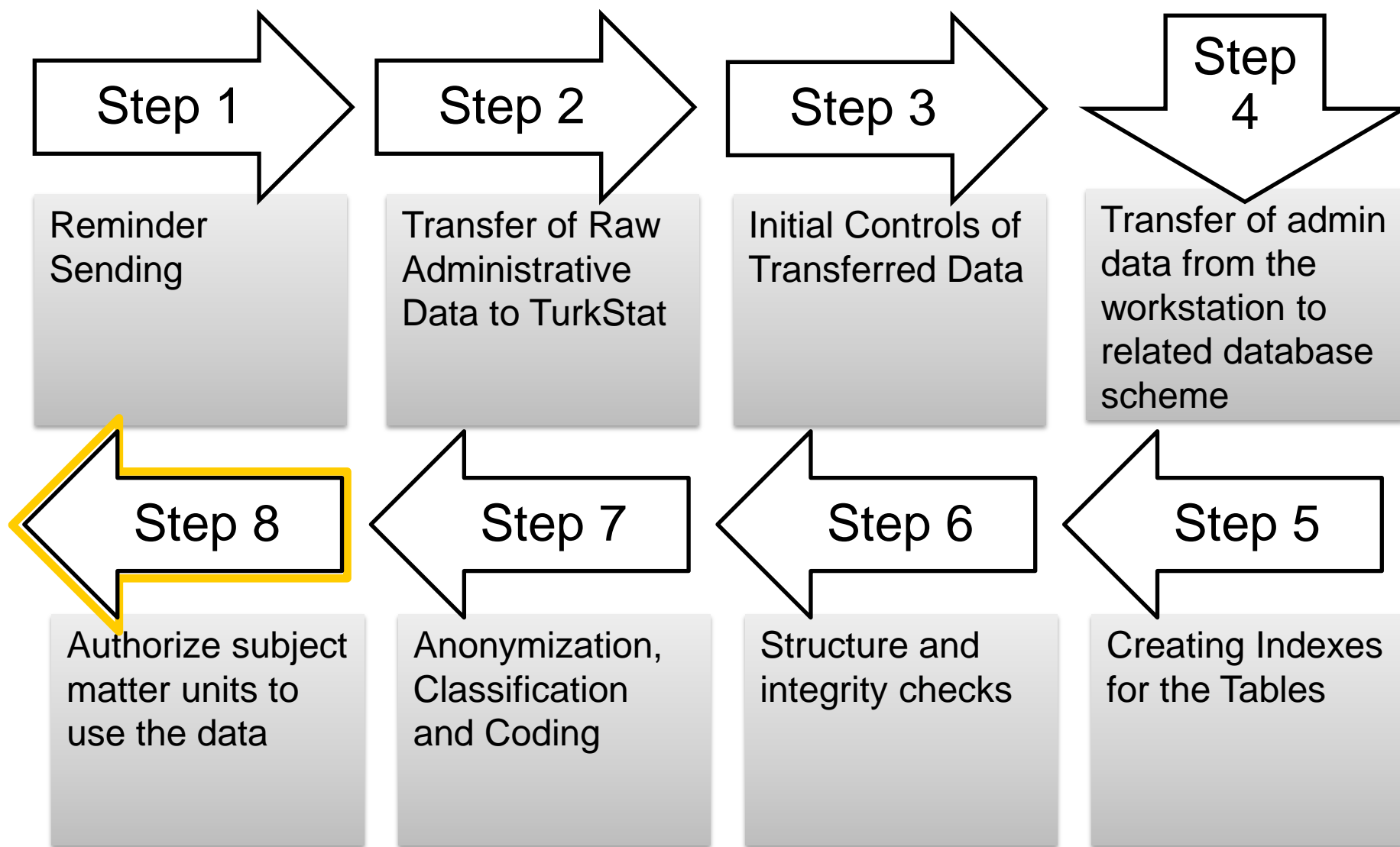
Structure and integrity checks



Operations Performed on Administrative Data (before the Use of Subject Matter Units)



Operations Performed on Administrative Data (before the Use of Subject Matter Units)



Lessons Learned

- › Use administrative data which is not an option any longer, it is an obligation.
- › Check quality of data acquisition well because It significantly guarantees quality of other phases as well.
- › Have up-to-data BR which plays a central role in data integration
- › Re-skill current staff
- › Improve db performance tuning and query optimization
- › Automate repetitive tasks
- › Set institution-wide standards on verifying administrative data before it enters to the statistical system

Conclusion

Use of Administrative Data in Statistical Production Contributes to:

- › Reduce cost and reporting burden of businesses
- › Improve data quality
- › Development of the institutional culture in a positive way
- › Improve internal collaboration between units
- › Add new skills and mindset to the staff
- › Establish strategic partnerships with admin data holders

Thank you for your attention

Contact me

- › Bilal Kurban
- › bilal.kurban@tuik.gov.tr