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Workshop on LFS

Methodology

Quality controls and checks in
data-editing procedure

Quality controls and checks in data-editing procedure

- Organisation of data-editing procedure in Austria for the LFS
- Plausibility checks at different phases in the editing procedure
- Examples

Austrian LFS

- 5 waves
- first wave CAPI (BLAISE)
- second to fifth wave CATI (BLAISE)

Organisation of data-editing

Procedure for each quarter:

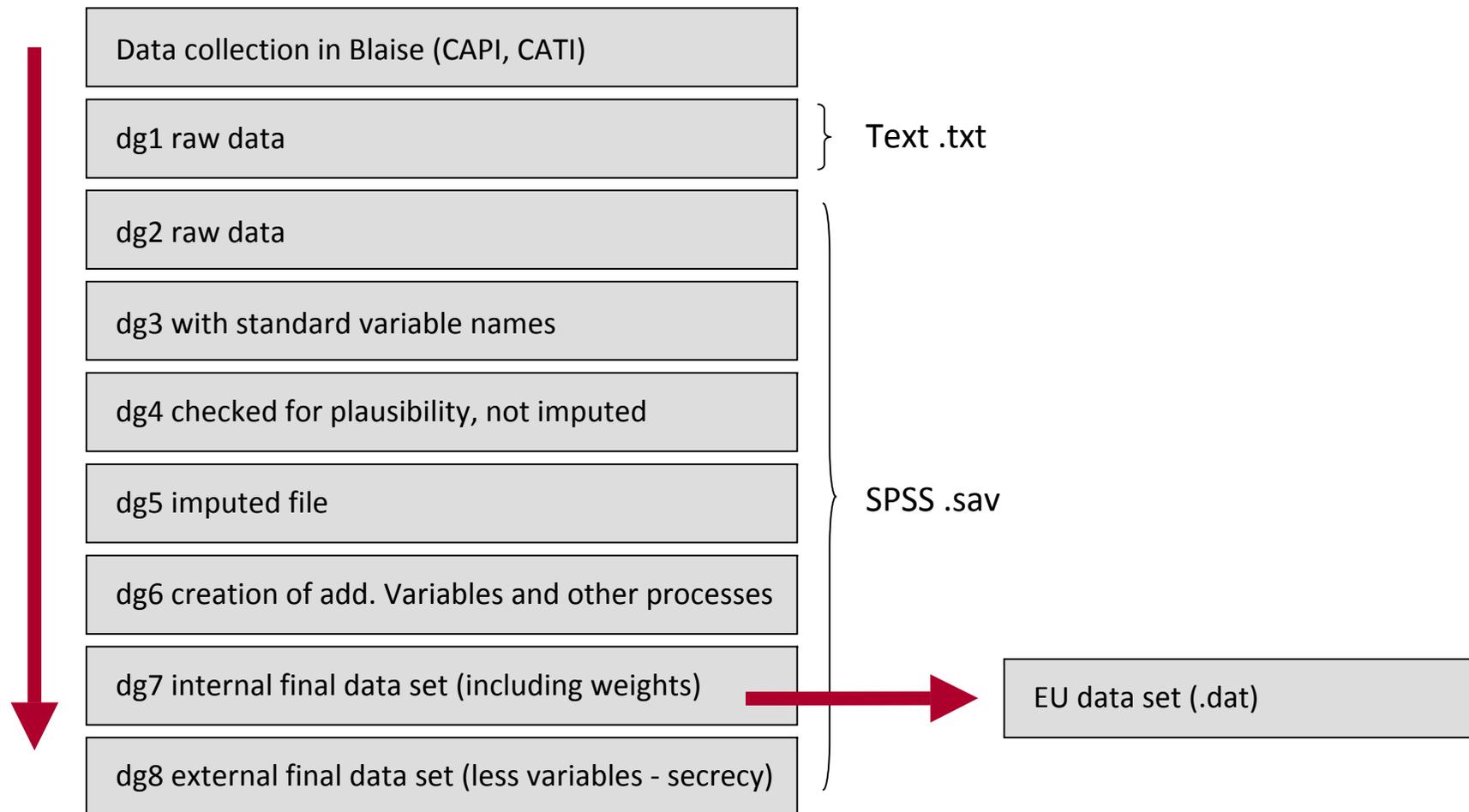
- Basis-file (BLAISE data file)
- Transformation into a text-file (dg1)
- dg2 to dg7: spss-files

Compatibility for enhancement and expansion.
Automating of editing for a large number of variables.

- final data-file (dg7 / dg8 / Eurostat-file)

Organisation of data-editing

The way from the interview to the final (quartaly) data set



Organisation of data-editing

Different prefixes of programmes depending on what the syntax refers to:

- Global procedure (meta.)
- Procedure at a lower level (proz.)
- Coding of variables (var.)
- Plausibility checks (pla.)
- Imputation (imp.)

Organisation of data-editing

Different missing values:

Missing values get negative codes (there are no other negative values in the dataset)

- Missing codes from BLAISE (don't know and refusal)
- Check of filters
 - missing value although there should be a value
 - value, but person is in the filter for the variable (should be missing)
- Implausible values

Organisation of data-editing

Different missing values:

Code	Label	Content
-1	Refusal	From CATI or CAPI (recoded to -1)
-2	Don't know	From CATI or CAPI (recoded to -2)
-3	Filter	Missing per definition
-4	Filter cancelled	Values that should be filters
-5	Unknown (System)	Not attributable missing values
-6	Filter missing-routing	Filtered due to a missing value
-7	Partly missing	Missing value in one variable of a merged variable
-9	Not plausible	Assigned in plausibility check
-10	Filter cancelled (missing-routing)	Values that should be filters due to missing-routing

Plausibility checks

- During the interview
 - Signals or “hard checks”
- After the interview
 - Plausibility analysis and corrections (imputation of implausible values)
 - Phone back to confirm answers

Plausibility checks

If two or more variables are involved – which one is correct?

Decide from case to case which value is true.

Can only be solved basically

- in the course of interview
- phone back the corresponding case

Plausibility checks

Routing errors

➤ Hierarchical approach

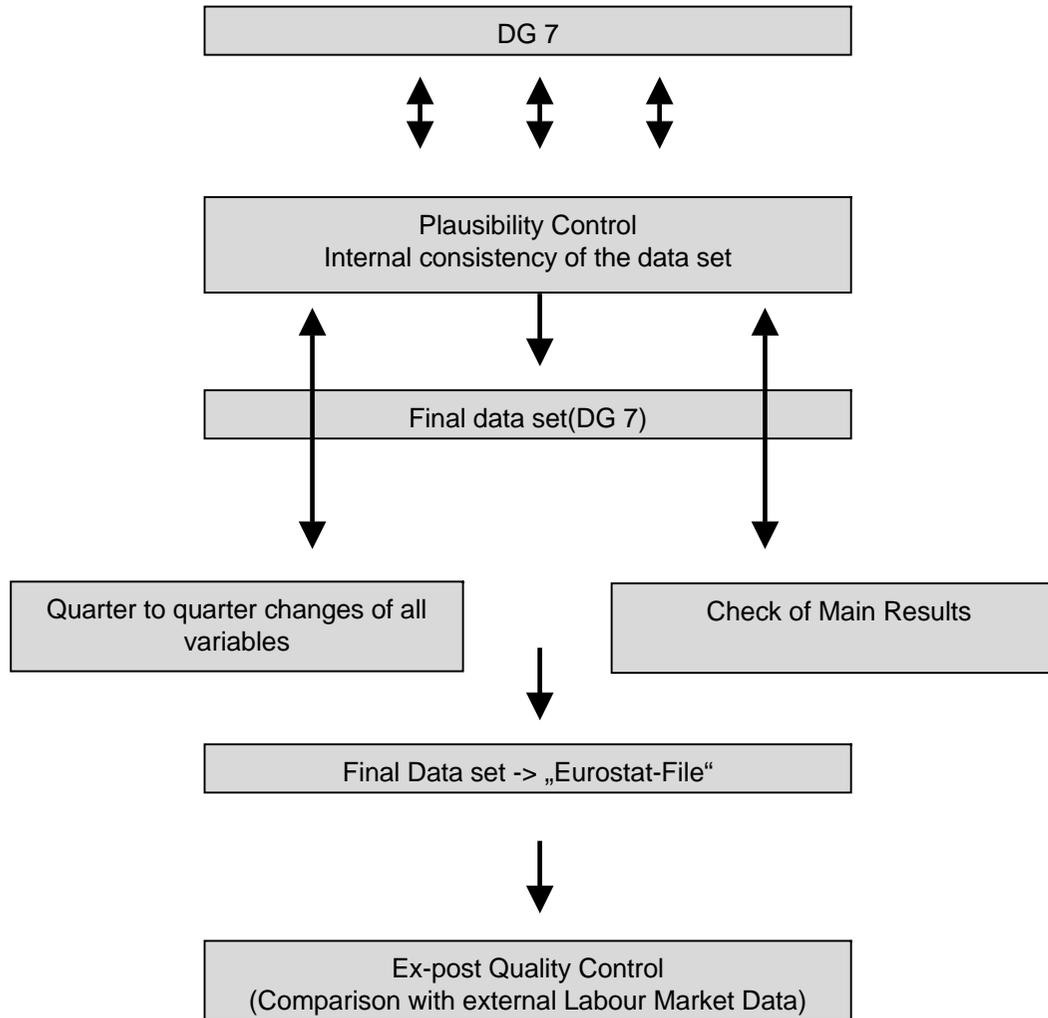
important variables for the routing are considered correct (except of some minor checks)

- age
- military or civilian service
- employment status

Plausibility checks in the Austrian LFS

- During the Interview (signals, checks)
- Between data generation 3 and 4 (pla.variable.sps)
- Before data generation 7 is finished

Data Control



Example

K12: In which year did you complete your highest educational level?

if K12<Year(GebDAt) and K12<>RF and K12<>DK then

CHECK (K12=empty) " You were born ^date of birth! "

endif

if (K12<YEAR(GebDat)+13 and K12<>RF and K12<>DK) then

SIGNAL (K12=empty) " You were younger than 14 years at the time of completing your highest education !"

endif

Example

Haushalts- und Personenfragebogen Austria

Forms Answer Navigate Options Help

Main Übersicht Mitglied[1] Ausstieg Termin Kontakt

Herr John X (37 Jahre)

In which year did you complete your highest educational level?

Education Pflichtschule bzw. falls kein Abschluss Angabe des letzten Schuljahres completed

Questions involved	Value
Mitglied[1],K12	1968

100370104 11:03:07

Example

The screenshot shows a web-based survey application titled "Haushalts- und Personenfragebogen Austria". The main content area displays the name "Herr John X (37 Jahre)" and the question "In which year did you complete your highest educational level?". Below the question, it states "Education Pflichtschule bzw. falls kein Abschluss Angabe des letzten Schuljahres completed".

An "Active Signal" dialog box is open, displaying the message: "Sie waren zum Zeitpunkt des Abschlusses unter 14 Jahre alt!". Below the message is a table with the following data:

Questions involved	Value
Mitglied[1],K12	1986

At the bottom of the dialog box are three buttons: "Suppress", "Close", and "Goto".

The bottom status bar of the application shows the ID "100370104" and the time "11:01:36".

Example

dg3

pla.dber08.sps
occupation

Teachers with professional status blue-collar worker or
contributing family worker

if range(dber08,2310,2359) and (dbers=2 or dbers=8)
dber08=-9.

dg4

Example

pla.cgrund.sps

Why didn't you work (in your principal occupation) in the week from Monday ... to Sunday ...? Was it mainly because of ...

R04 - Further or vocational education or training

if (cgrund=4)&(kausb=0)&(kkursb=0)&(kkursf=0) cgrund=-9.

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