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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:

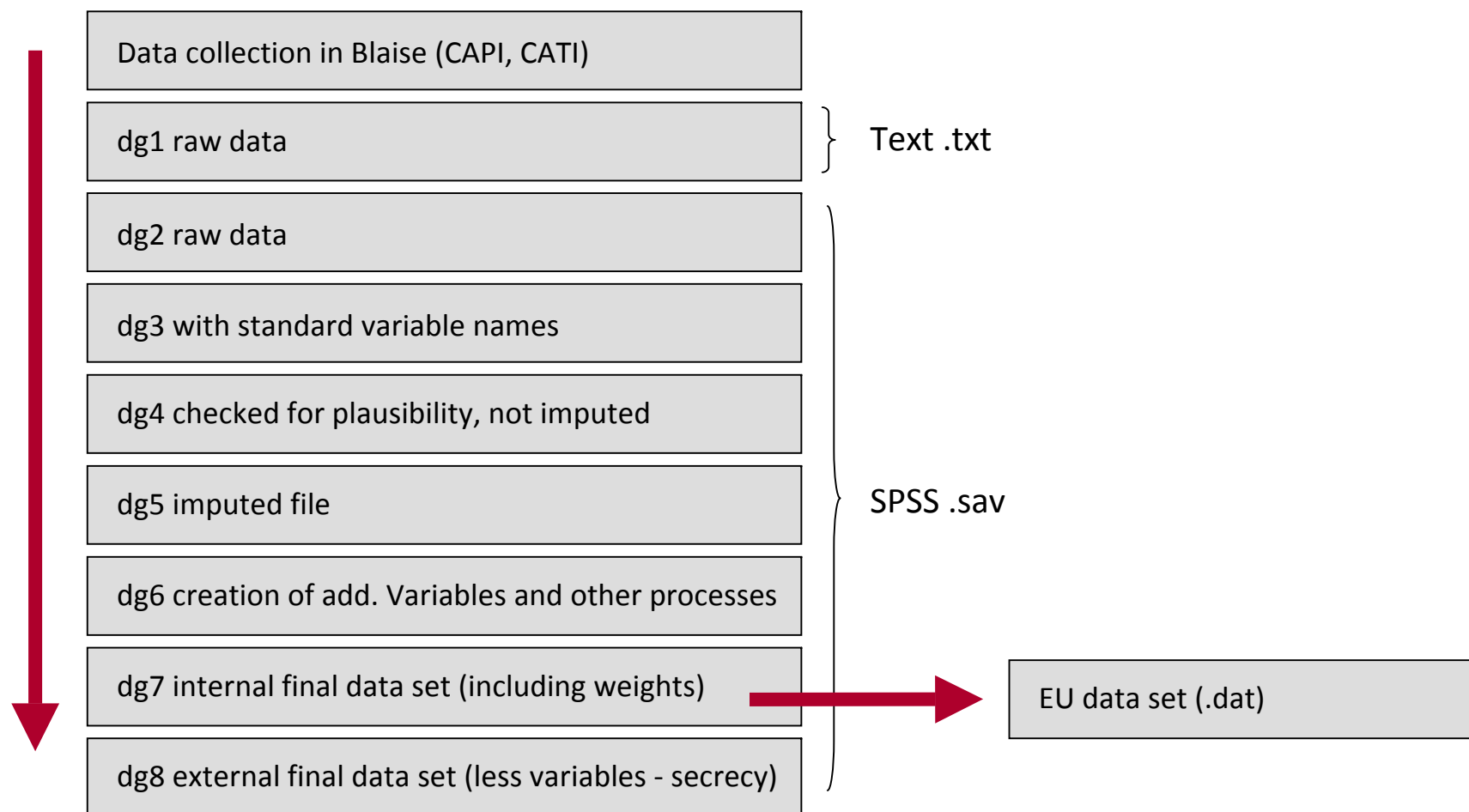
- Basis-file (BLAISE data file)
- Transformation into a text-file (dg1)
- dg2 to dg7: spss-files

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

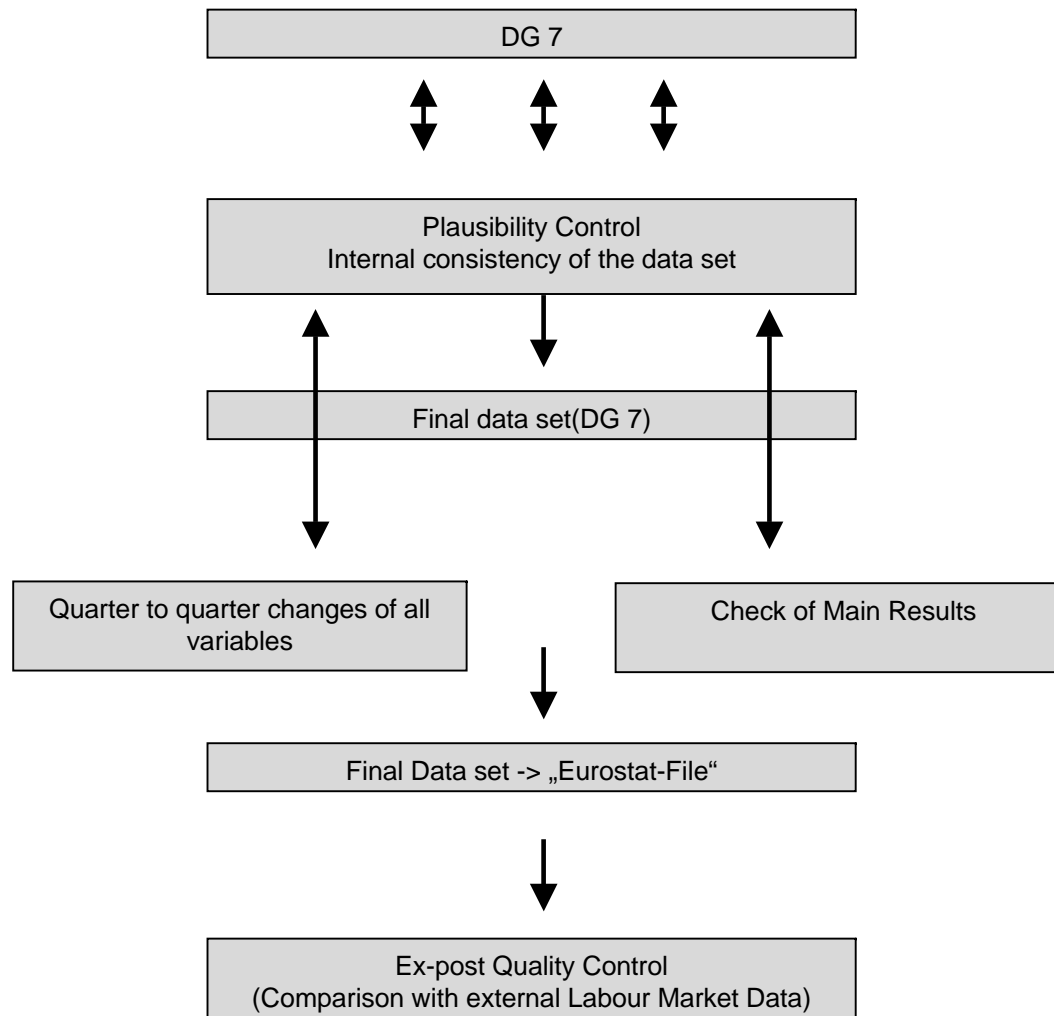
important variables for the routing are considered correct (except of some minor checks)

- 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

K9a	1	R01	K11	4
K9b			K11a	
K9c			K11aVorquartal	
K9d			K11_1	
K9d_1			k11_1a	
K9e			K11_1b	
K10			K12	1968
k10a			K13	
K10b				

Hard Error

Sie wurden 21.11.1974 geboren!

Questions involved	Value
Mitglied[1].K12	1968

Suppress Close Goto

100370104 11:03:07

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

K9a 1 R01 K11 4
K9b K11a
K9c K11aVorquartal
K9d K11_1
K9d_1 k11_1a
K9e K11_1b
K10 K12 1986
k10a K13
K10b

Active Signal

Sie waren zum Zeitpunkt des Abschlusses unter 14 Jahre alt!

Questions involved	Value
Mitglied[1].KFragen.K12	1986

Suppress Close Goto

100370104 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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Methodology

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