**Data retrieval and preparation**

Step by step documentation of requiring and preparing the data. Syntax corresponding with each step is provided in ‘Syntax Data Preparation.sps’ (IBM SPSS Statistics version 21), and corresponding R-code in ‘Preparation of backgroundvariables.r’ (R version 3.1.1, 2014-07-10).

**Step 1**: Log on to LISS panel at http://[www.lissdata.nl](http://www.lissdata.nl). Download the following variables in three different SPSS files:

* *The survey attitude items*: click on Access data > search, and search for Survey attitude. Select: survey attitude (concept). All items measuring survey attitude are shown for 2008-2013 (6 waves), 54 variabels in total.
* *Household indicator variable*: nohouse\_encr, for 2007-2013.
* *Background variables*: click on Access data > Browse studies > LISS > Background variables. Select the variables: ‘gebjaar’, ‘geslacht’, ‘nohouse\_encr’, ‘sted, brutoink\_f’, ‘oplcat’, ‘werving’ and ‘herkomstgroep’. Select all between 2007 and 2013, add them to a basket and download the SPSS file.

**Step 2**: [in surve attitude items file] Remove cases with wave 6 data only (no longitudinal information) (see corresponding syntax step 2).

Total cases raw data: 10133. Total cases after step 2: 9960 (173 removed).

**Step 3**: Recoding variable six (negatively formulated relative to other subconstruct measures of survey value) for each wave (see corresponding syntax step 3).

**Step 4**: Recoding system missings into 999 (to facilitate import in Mplus) (see corresponding syntax step 5).

**Step 5**: [use household file] Prepare a household indicator variable. Creating a ‘first household’ variable by selecting the first known households of a person and removing later entries (i.e. keeping one household per person) (see corresponding syntax step 5).

Total cases: 19188.

**Step 6**: Merge the household file with survey attitude items file based on the person indicator variable ‘nomem\_encr’ (see corresponding syntax step 6).

Total cases: 9960.

**Step 7**: Delete PrimaryFirst variable, save file as tab-delimited file (.dat), compatible with MPLUS 7. Encoding: Unicode (UTF-8), uncheck ‘Write variable names to spreadsheet’.

**Result**: Dataset1: Survey attitude items plus household indicator.

**Step 8**: [use dataset1] Creating a long format from dataset1 to test first order factor variables for measurement invariance (each case represents a survey attitude at a particular occasion).

**Step 9**: Save file as tab-delimited file (.dat), compatible with MPLUS 7. Encoding: Unicode (UTF-8), uncheck ‘Write variable names to spreadsheet’.

**Result:** Dataset2: Survey attitude items in long format.

**Step 10**: [use dataset1] Calculating composite variables for subconstructs survey enjoyment, survey value and survey burden. Recode missings as 999. Save file as tab-delimited file (.dat), compatible with MPLUS 7. Encoding: Unicode (UTF-8), uncheck ‘Write variable names to spreadsheet’.

**Result:** Dataset3: Survey attitude composite scores plus household indicator.

**Step 11**: [use background variables file] Load the data in R. See ‘preparation for backgroundvariables.r’ for Rcode.

**Step 12**: Select the first known entry in time for each background variable and create a new dataframe with one entry (if available) for each person on each background variable. See corresponding Rcode.

**Step 13**: Save file as SPSS file (see corresponding Rcode).

**Step 14**: Merge saved SPSS file with dataset3, recode system missings into 999.

**Step 15**: Dummy code categorical auxiliary variables: ‘geslacht’, ‘sted’, ‘oplcat’, ‘herkomst’.

**Step 16**: Rescale age, linear transformation: (2007-gebjaar)/10.

**Step 17**: Correct an outlier. A respondent who was born in 2006, probably a misunderstanding. Three months later, her entry was changed to 1995, so 2006 is replaced with 1995 (see Rcode step 17).

**Step 18**: Save file as tab-delimited file (.dat), compatible with MPLUS 7. Encoding: Unicode (UTF-8), uncheck ‘Write variable names to spreadsheet’.

**Result:** Dataset4: Survey attitude composite scores plus household indicator and (dummycoded) background variables.

In summary, four datasets are now created for use in Mplus:

Dataset1: Survey attitude items plus household indicator.

Dataset2: Survey attitude items in long format.

Dataset3: Survey attitude composite scores plus household indicator.

Dataset4: Survey attitude composite scores plus household indicator and (dummycoded) background variables.

**NOTE:** before using .dat files in MPLUS, replace “,” with “.” in .dat file.