/\* Results 4.2 and 4.3 and 4.5 \*/

%let rootstem=“path to data documentation goes here“;

libname library "&rootstem.\SAS code Survey participation percentages";

options nodate nonumber mprint mlogic byline formdlim="." nofmterr;

title;

\*number of contacts;

**proc** **means** data=library.intaus1;

var geskon;

where final=**81**;

**run**;

**proc** **surveymeans** data=library.intaus1;

cluster Liste;

weight hFAKT;

var geskon;

domain final;

**run**;

**proc** **freq** data=library.intaus1;

weight hFAKT;

tables beziehp;

**run**;

\* Distribution of latent PANAS means across groups;

\*Import Mplus results from MI analysis;

**data** checkmeth; set library.intaus1;

keep ID hFAKT Liste alt\_heim heim\_gen kogcomb kogcombdich kogavail isei08 final alt\_sex alt\_agegroup funkges: panas1-panas5;

\*generate hard-to-survey group indicator variables;

\* Step 1 recode duration of living;

if wohnf4\_dur=**.T** then wohnf4\_movind=**.T**;

else if wohnf4\_dur in (**.V**, **.W**) then wohnf4\_movind=**0**;

else if **0** le wohnf4\_dur le **3** then wohnf4\_movind=**1**;

else if wohnf4\_dur gt **3** then wohnf4\_movind=**2**;

if wohnf5\_dur=**.T** then wohnf5\_movind=**.T**;

else if wohnf5\_dur in (**.V**, **.W**) then wohnf5\_movind=**0**;

else if **0** le wohnf5\_dur le **3** then wohnf5\_movind=**1**;

else if wohnf5\_dur gt **3** then wohnf5\_movind=**2**;

\*recode Wohnsit\_8;

if wohnsit\_8 in (**1**,**2**,**3**) then wohnsit\_8kurz=**1**;

else if wohnsit\_8 in (**4**,**5**,**8**,**10**) then wohnsit\_8kurz=**2**;

else if wohnsit\_8 in (**6**) then wohnsit\_8kurz=**6**;

else if wohnsit\_8 in (**7**) then wohnsit\_8kurz=**7**;

else if wohnsit\_8 in (**.T**,**.V**,**.W**,**9**) then wohnsit\_8kurz=**9**;\*keine INfo;

label wohnsit\_8kurz="Wohnform nach Interviewer (zusammengefasst)";

\*generate heim\_gen according to priority rules;

if (wohnsit\_8kurz=**1**) then heim\_gen=**1**;

else if (wohnsit\_8kurz=**2**) then heim\_gen=**0**;

else if (wohnsit\_8kurz in (**6**,**7**,**9**) and institut=**1** and ALT\_heim=**1**) then heim\_gen=**1**;

else if (wohnsit\_8kurz in (**6**,**7**,**9**) and institut=**0** and ALT\_heim=**0**) then heim\_gen=**0**;

else if (wohnsit\_8kurz in (**6**,**7**,**9**) and institut=**1** and ALT\_heim=**0** and (wohnf4\_movind=**1** or wohnf5\_movind=**1**)) then heim\_gen=**1**;

else if (wohnsit\_8kurz in (**6**,**7**,**9**) and institut=**1** and ALT\_heim=**0** and wohnf5\_movind in (**0**,**2**) and wohnf1=**1**) then heim\_gen=**1**;

else if (wohnsit\_8kurz in (**6**,**7**,**9**) and institut=**1** and ALT\_heim=**0** and wohnf4\_movind in (**0**,**2**) and wohnf1=**0**) then heim\_gen=**0**;

else if (wohnsit\_8kurz in (**6**,**7**,**9**) and institut=**0** and ALT\_heim=**1** and (wohnf4\_movind=**1** or wohnf5\_movind=**1**)) then heim\_gen=**0**;

else if (wohnsit\_8kurz in (**6**,**7**,**9**) and institut=**0** and ALT\_heim=**1** and wohnf5\_movind in (**0**,**2**) and wohnf1=**1**) then heim\_gen=**1**;

else if (wohnsit\_8kurz in (**6**,**7**,**9**) and institut=**0** and ALT\_heim=**1** and wohnf4\_movind in (**0**,**2**) and wohnf1=**0**) then heim\_gen=**0**;

label heim\_gen="Wohnform: Privat vs. Heim (generierte Variable)";

kogcomb=demtectcorr;

if kogstat in (**1**,**2**) then kogcomb=**0**;

else if kogstat=**3** then kogcomb=**1**;

else if kogstat ge **4** then kogcomb=**2**;

label kogcomb="Kombination der DemTect und GDS-Einschätzung des kogn. Zustandes";

if kogcomb in (**1**,**2**) then kogcombdich=**1**; else kogcombdich=kogcomb;\*dichtotome Gruppeneinteilung für Methodenartikel;

if kogcomb in (**0**,**1**,**2**) then kogavail=**1**;else kogavail=**0**;\*für Analysen zur Durchführbarkeit des Kogntionsassessments;

**run**;

**proc** **sort** data=checkmeth; by ID;**run**;

\*PANAS;

**PROC** **IMPORT** OUT=work.out\_panas\_fscores

DATAFILE="&rootstem.\SAS code Survey participation percentages\out\_panas\_messmod\_scalarMI\_fscores.xlsx"

DBMS=XLSX REPLACE; GETNAMES=YES;

**RUN**;

**data** out\_panas\_fscores; set out\_panas\_fscores;

rename hFAKT=hFAKT\_mplusout;

**run**;

**proc** **sort** data= out\_panas\_fscores;by ID; **run**;

**data** out\_panas\_fscores; merge checkmeth out\_panas\_fscores;by ID; **run**;

**data** out\_panas\_fscores; set out\_panas\_fscores;where panas ne **.**;**run**;

**proc** **surveymeans** data=out\_panas\_fscores;

cluster Liste;

weight hFAKT;

var panas;

domain heim\_gen;

**run**;

**proc** **surveymeans** data=out\_panas\_fscores;

cluster Liste;

weight hFAKT;

var panas;

domain kogcombdich;

**run**;

**proc** **surveymeans** data=out\_panas\_fscores;

cluster Liste;

weight hFAKT;

var panas;

domain final;

**run**;

\*ISEI;

**proc** **surveymeans** data=checkmeth;

cluster Liste;

weight hFAKT;

var isei08;

domain final;

**run**;

**proc** **surveymeans** data=checkmeth;

cluster Liste;

weight hFAKT;

var isei08;

domain heim\_gen;

**run**;

**proc** **surveymeans** data=checkmeth;

cluster Liste;

weight hFAKT;

var isei08;

domain kogcombdich;

**run**;

\*IADL/ADL - from Mplus-MI-Output - separate Models due to lack of invariance;

\*FUNKGES;

**PROC** **IMPORT** OUT=work.out\_funkges\_fscores\_zpcapi

DATAFILE="&rootstem\SAS code Survey participation percentages\out\_funkges\_hetparc\_unrest\_fscores\_zpcapi.xlsx"

DBMS=XLSX REPLACE; GETNAMES=YES;

**RUN**;

**PROC** **IMPORT** OUT=work.out\_funkges\_fscores\_proxy

DATAFILE="&rootstem.\SAS code Survey participation percentages\out\_funkges\_hetparc\_unrest\_fscores\_proxy.xlsx"

DBMS=XLSX REPLACE; GETNAMES=YES;

**RUN**;

**data** out\_funkges\_fscores\_recombo;

set out\_funkges\_fscores\_zpcapi out\_funkges\_fscores\_proxy;

**run**;

**data** out\_funkges\_fscores\_recombo; set out\_funkges\_fscores\_recombo;

rename hFAKT=hFAKT\_mplusout;

\* hFAKT\_recombo=hFAKT\*578.260;\*nicht machen, da nicht genau klar wie Mplus intern (nach Gruppen) reskaliert hat;

**run**;

**proc** **sort** data=out\_funkges\_fscores\_recombo;by ID; **run**;

**data** out\_funkges\_fscores\_recombo; merge checkmeth out\_funkges\_fscores\_recombo;by ID; **run**;

**data** out\_funkges\_fscores\_recombo; set out\_funkges\_fscores\_recombo;where funkges ne **.**;**run**;

**proc** **surveymeans** data=out\_funkges\_fscores\_recombo;

cluster Liste;

weight hFAKT;

var funkges;

domain final;

**run**;

**proc** **surveymeans** data=out\_funkges\_fscores\_recombo;

cluster Liste;

weight hFAKT;

var funkges;

domain heim\_gen;

**run**;

**proc** **surveymeans** data=out\_funkges\_fscores\_recombo;

cluster Liste;

weight hFAKT;

var funkges;

domain kogcombdich;

**run**;

\*Likelihood ratio test for MI - 2ndorder Factor funkges (with 3 heterogeneous Parcels);

title1 "MGM ZPCAPI-PROXY - funkges (hetparc) - unrestricted model versus metric MI";

%***scalednest*** (ll0= -**1265.055**, scf0= **1.6479**, par0=**16**, ll1=-**1250.945**, scf1= **1.6070**, par1=**18**);\*--> does not hold;

\*Test for different feasibility of conducting DemTect DemTect/GDS in realised Sample;

**proc** **freq** data=checkmeth;

weight hFAKT;

tables kogavail\*ALT\_sex /chisq;

**run**;**quit**;

**proc** **surveylogistic** data=checkmeth;

cluster Liste;

weight hFAKT;

class ALT\_sex;

model kogavail = ALT\_sex ;\*/solution;

**run**;**quit**;

**proc** **freq** data=checkmeth;

weight hFAKT;

tables kogavail\*ALT\_agegroup /chisq;

**run**;**quit**;

**proc** **surveylogistic** data=checkmeth;

cluster Liste;

weight hFAKT;

class ALT\_agegroup;

model kogavail = ALT\_agegroup ;\*/solution;

**run**;**quit**;

**proc** **freq** data=checkmeth;

weight hFAKT;

tables kogavail\*heim\_gen /chisq;

**run**;**quit**;

**proc** **surveylogistic** data=checkmeth;

cluster Liste;

weight hFAKT;

class heim\_gen;

model kogavail = heim\_gen ;\*/solution;

**run**;**quit**;

**proc** **freq** data=checkmeth;

weight hFAKT;

tables kogavail\*final /chisq;

**run**;**quit**;

**proc** **surveylogistic** data=checkmeth;

cluster Liste;

weight hFAKT;

class final;

model kogavail = final ;\*/solution;

**run**;**quit**;

\*Availability of isei08 and funkges;

**proc** **freq** data=library.intaus1;

weight hFAKT;

tables (funkges:)\*final/missing;

**run**;

**proc** **freq** data=checkmeth;

weight hFAKT;

tables (funkges1-funkges14)\*heim\_gen/missing nopercent norow;

**run**;

**proc** **freq** data=checkmeth;

weight hFAKT;

tables (funkges1-funkges14)\*kogcombdich/missing nopercent norow;

where kogcombdich in (**0**,**1**);

**run**;

**proc** **freq** data=checkmeth;

weight hFAKT;

tables (isei08)\*kogcombdich/missing nopercent norow;

format isei08 **5.**;

where kogcombdich in (**0**,**1**);

**run**;

**proc** **freq** data=checkmeth;

weight hFAKT;

tables (isei08)\*heim\_gen/missing nopercent norow;

format isei08 **5.**;

**run**;

**proc** **freq** data=checkmeth;

weight hFAKT;

tables (isei08)\*final/missing nopercent norow;

format isei08 **5.**;

**run**;

\*Additional analysis – availability of PANAS at item level;

**proc** **freq** data=library.intaus1;

weight hFAKT;

tables (panas1-panas5)\*final/missing nopercent norow;

**run**;

**proc** **freq** data=checkmeth;

weight hFAKT;

tables (panas1-panas5)\*heim\_gen/missing nopercent norow;

**run**;

**proc** **freq** data=checkmeth;

weight hFAKT;

tables (panas1-panas5)\*kogcombdich/missing nopercent norow;

where kogcombdich in (**0**,**1**);

**run**;

**proc** **freq** data=checkmeth;

\* cluster Liste;

weight hFAKT;

tables final\*kogcomb;

**run**;

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/