```
******************************************************************************
*** Stata code for the article DOI 20-0079 in Public Opinion Quarterly **
*** "Sharing data collected with smartphone sensors: Willingness, participation,
*** and nonparticipation bias"
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*** Questions to: Bella Struminskaya at b.struminskaya@uu.nl
*** Last change to code: 23.02.2021, B. Struminskaya
*** Note: the data are not available for replication since these are administrative data
*** which can be only accessed securely within Statistics Netherlands. This code serves the
*** purpose of allowing conceptual replication. Some precautionary measures have been taken:
*** - The paths are replaced by placeholders #path#
*** - Dataset names replaced by placeholders #datafile#
*** - Some data preparation that pertains to administrative data / registry data
*** that do not directly pertain to the analysis are replaced by placeholders #data_prep#


clear
clear matrix
set more off

cd "#path1#"
use #data1#, clear

describe
count if sleutel[_n] != sleutel[_n+1] // 1965 observations

#data_prep1#

* WTS variables
cap drop sharegps sharevid sharefhou sharefrec sharefself
clonevar sharegps = Main_GPSFotoVideo_ToestemmingDel
clonevar sharevid = Main_GPSFotoVideo_ToestemmingVid
clonevar sharefhou = Main_GPSFotoVideo_ToestemmingFot
clonevar sharefrec = Main_GPSFotoVideo_ToestemmingFo0
clonevar sharefself = Main_GPSFotoVideo_ToestemmingFo1

recode sharegps sharevid sharefhou sharefrec sharefself (2=0)
br Main_GPSFotoVideo_ToestemmingDel Main_GPSFotoVideo_ToestemmingVid ///
    Main_GPSFotoVideo_ToestemmingFot Main_GPSFotoVideo_ToestemmingFo0 ///
    Main_GPSFotoVideo_ToestemmingFo1 sharegps sharevid sharefhou sharefrec sharefself

gen nettodataset = 1  // identifier for the netto data set (#datasetname1#) n=1965
tab nettodataset
cd "#path2#"
save #datasetname1#, replace


*** Merge with paradata
clear
cd "#path3#"
use #datasetname2#, clear
cap drop id // n=3618 [invited]
```

```
clonevar id = Correspondentienummer
save #datasetname2#, replace

cd "#path2#"
use #datasetname1#, clear
cap drop id interimid
clonevar interimid = sleutel
destring interimid, gen(id)
br sleutel id interimid
drop interimid
save #datasetname1#, replace

cd "#path3#"
merge m:m id using #datasetname2#

tab _merge nettodataset, m

cd "#path2#"

*** merging with admin data ***
cd "#path2#"
use #datasetname1#, clear
cap drop idadmin
destring SteekproefeenheidId, gen(idadmin)

save #datasetname3#, replace

cd "#path4#"
use #datasetname4#, clear
cap drop idadmin
destring veilignummer, gen(idadmin)
sum idadmin // 3618 observations in dataset
cd "#path2#"
save #datasetname5#, replace


use #datasetname3#, clear
cap drop _merge
merge m:m idadmin using #datasetname5#, force
br veilignummer SteekproefeenheidId idadmin
tab _merge // all cases merged
drop _merge
save #datasetname3#, replace

****************************************************************************
***    DATA PREPARATION AND ANALYSIS ***                                 *
****************************************************************************
cd "#path2#"
use #datasetname3#, clear
numlabel _all, add
```

```stata
/*
Experimental groups
     Gain   Control          Privacy
1    X           X                 X
2    X           X
3    X                             X
4    X
5                X                 X
6                X
7                                  X
8
*/
cap drop group
gen group = Main_Stuur_SE_Groep
la var group "Experimental group"
la def group 1 "GainConPriv" 2 "GainCon" 3 "GainPriv" 4 "Gain" 5 "ConPriv" 6 "Con" 7 "Priv" 8 "No text"
la val group group
tab group,m

// Dummy variables for groups
cap drop dumgain dumcon dumpriv
gen dumgain = 0
replace dumgain = 1 if group <5
gen dumcon =0
replace dumcon =1 if group<3 | group>4 & group<7
gen dumpriv =0
replace dumpriv =1 if group ==1 | group ==3 | group == 5 | group ==7
tab group dumgain
tab group dumcon
tab group dumpriv

// new indicator variables of actual gps photo videos taken
cap drop gpslocation
gen gpslocation = 1
replace gpslocation = 0 if  Main_GPSFotoVideo_Location == ""
tab gpslocation,m
tab gpslocation if sharegps==1

cap drop video
gen video = 1
replace video = 0 if Main_GPSFotoVideo_Video == ""
tab video if sharevid ==1

cap drop phouse
gen phouse = 1
replace phouse = 0 if Main_GPSFotoVideo_PhotoHouse == ""
tab phouse if sharefhou ==1

cap drop preceipt
gen preceipt = 1
replace preceipt = 0 if Main_GPSFotoVideo_PhotoReceipt == ""
```

```
tab preceipt if sharefrec ==1

cap drop pself
gen pself = 1
replace pself = 0 if Main_GPSFotoVideo_PhotoSelfie == ""
tab pself if sharefself == 1

tab1 gpslocation video phouse preceipt pself

*** who said yes to WTP took a measurement and then changed the answer to WTP question
br Main_GPSFotoVideo_ToestemmingDel Main_GPSFotoVideo_Location ///
      if Main_GPSFotoVideo_ToestemmingDel ==2 & Main_GPSFotoVideo_Location != "" // 13 persons

br Main_GPSFotoVideo_ToestemmingVid Main_GPSFotoVideo_Video ///
      if Main_GPSFotoVideo_ToestemmingVid ==2 & Main_GPSFotoVideo_Video != "" // 15 persons

br Main_GPSFotoVideo_ToestemmingFot Main_GPSFotoVideo_PhotoHouse ///
      if Main_GPSFotoVideo_ToestemmingFot==2 & Main_GPSFotoVideo_PhotoHouse != "" // 4 persons

br Main_GPSFotoVideo_ToestemmingFo0 Main_GPSFotoVideo_PhotoReceipt ///
      if Main_GPSFotoVideo_ToestemmingFo0==2 & Main_GPSFotoVideo_PhotoReceipt != "" // 1 person

br Main_GPSFotoVideo_ToestemmingFo1 Main_GPSFotoVideo_PhotoSelfie ///
      if Main_GPSFotoVideo_ToestemmingFo1 ==2 & Main_GPSFotoVideo_PhotoSelfie != "" // 1 person
******************************************************************************

*** Respondent characteristics ***
** age
clonevar age = Main_CtrlPG_AFL_Lft
sum age

** gender
tab Main_NAW_Geslacht Geslacht,m
cap drop man
gen man = .
replace man = 1 if Main_NAW_Geslacht == "M"
replace man = 0 if Main_NAW_Geslacht == "V"
tab Main_NAW_Geslacht man, m
tab man

** education
tab Main_Afsluit_Opleiding if netto == 1,m
tab Main_Afsluit_Opleiding oplnivhg ,m
tab Main_Afsluit_Opleiding oplnivact  ,m
// 1. no education, basis & vbmo 2. havo/vwo & mbo 3. hbo & wo
cap drop education
cap drop educ1 educ2 educ3
gen education = Main_Afsluit_Opleiding
recode education 2=1 3=2 4=3 5=. 6=1
// imputing information from registry
replace education = 1 if education == . & oplnivhg == 11
```

```
replace education = 1 if education == . & oplnivhg == 12
replace education = 2 if education == . & oplnivhg == 21
replace education = 3 if education == . & oplnivhg == 31
tab education if netto==1, m
tab education, gen(educ)


** number of device activities - numactiv
tab1 Main_Device_Activiteiten1 - Main_Device_Activiteiten16,m

forvalues i=1/16 {
        cap drop mact`i'
        tab Main_Device_Activiteiten`i',m
        gen mact`i' = 0
        replace mact`i' = 1 if Main_Device_Activiteiten`i' !=.
        tab mact`i',m
        }

cap drop numactiv
egen numactiv = rowtotal (mact1 mact2 mact3 mact4 mact5 mact6 mact7 mact8 mact9  ///
                          mact10 mact11 mact12 mact13 mact14 mact15 mact16)
cap drop numactcheck
egen numactcheck = rownonmiss (Main_Device_Activiteiten1 Main_Device_Activiteiten2 Main_Device_Activiteiten3 ///
                                Main_Device_Activiteiten4 Main_Device_Activiteiten5 Main_Device_Activiteiten6 ///
                                Main_Device_Activiteiten7 Main_Device_Activiteiten8 Main_Device_Activiteiten9 ///
                                Main_Device_Activiteiten10 Main_Device_Activiteiten11 Main_Device_Activiteiten12 ///
                                Main_Device_Activiteiten13 Main_Device_Activiteiten14 Main_Device_Activiteiten15 ///
                                Main_Device_Activiteiten16)

tab numactiv if numactiv != numactcheck
replace numactiv = . if netto != 1


** freq gps
tab Main_Device_HoeVaakGPS
cap drop freqgps
gen freqgps = Main_Device_HoeVaakGPS
recode freqgps .=0 6=1 5=2 4=3 3=4 2=5 1=6
replace freqgps =. if netto != 1


** freq photo
cap drop freqphoto
gen freqphoto = Main_Device_HoeVaakFotos
recode freqphoto .=0 5=1 4=2 3=3 2=4 1=5
tab freqphoto Main_Device_HoeVaakFotos,m
replace freqphoto =. if netto != 1


** freq video
cap drop freqvideo
gen freqvideo = Main_Device_HoeVaakVideos
recode freqvideo .=0 5=1 4=2 3=3 2=4 1=5
tab freqvideo Main_Device_HoeVaakVideos,m
replace freqvideo =. if netto != 1
```

```
** device skill
tab Main_Device_Vaardigheden,m
clonevar spskill = Main_Device_Vaardigheden

** privacy concern
tab Main_Privacy_ZorgenAlgemeen,m
clonevar concern = Main_Privacy_ZorgenAlgemeen
replace concern =. if netto !=1

** distrust: concern about data sharing // 1 factor
factor Main_Privacy_VertrouwenBedrijven Main_Privacy_VertrouwenOverheids Main_Privacy_VertrouwenSocialeMe
rotate, promax blanks(.3)

clonevar concern_firms = Main_Privacy_VertrouwenBedrijven
clonevar concern_govt = Main_Privacy_VertrouwenOverheids
clonevar concern_socme = Main_Privacy_VertrouwenSocialeMe
egen concern_ds = rowmean(concern_firms concern_govt concern_socme)
sum concern_ds

** survey attitudes
tab1 Main_Privacy_LeukVragenlijsten Main_Privacy_LeukGeinterviewd Main_Privacy_InteressantVragenli ///
Main_Privacy_BelangrijkVragenlij Main_Privacy_WijzerVragenlijstOn Main_Privacy_TijdverspillingOnde ///
Main_Privacy_TeVeelVerzoekenEnqu Main_Privacy_PrivacyOpiniepeilin Main_Privacy_VermoeiendVeelVrage

factor Main_Privacy_LeukVragenlijsten Main_Privacy_LeukGeinterviewd Main_Privacy_InteressantVragenli ///
Main_Privacy_BelangrijkVragenlij Main_Privacy_WijzerVragenlijstOn Main_Privacy_TijdverspillingOnde ///
Main_Privacy_TeVeelVerzoekenEnqu Main_Privacy_PrivacyOpiniepeilin Main_Privacy_VermoeiendVeelVrage
rotate, promax blanks(.3)

cap drop survatt*
gen survatt1 = Main_Privacy_LeukVragenlijsten
gen survatt2 = Main_Privacy_LeukGeinterviewd
gen survatt3 = Main_Privacy_InteressantVragenli
gen survatt4 = Main_Privacy_BelangrijkVragenlij
gen survatt5 = Main_Privacy_WijzerVragenlijstOn
gen survatt6 = Main_Privacy_TijdverspillingOnde
gen survatt7 = Main_Privacy_TeVeelVerzoekenEnqu
gen survatt8 = Main_Privacy_PrivacyOpiniepeilin
gen survatt9 = Main_Privacy_VermoeiendVeelVrage
recode survatt6 7=1 6=2 5=3 4=4 3=5 2=6 1=7
tab Main_Privacy_TijdverspillingOnde survatt6

factor survatt1 survatt2 survatt3 survatt4 survatt5 survatt6 survatt7 survatt8 survatt9
rotate, promax blanks(.3)

// same as DeLeeuw et al. 2019 (items 3, 6 have additional loadings just as in DeLeeuw et al.)
egen sa_enjoy = rowmean(survatt1 survatt2 survatt3)
egen sa_value = rowmean(survatt4 survatt5 survatt6)
egen sa_burden = rowmean(survatt7 survatt8 survatt9)
```

```
** survey experience
tab1 Main_Survey_VragenlijstenIngevul Main_Survey_VragenlijstSmartPhon
gen survpart = Main_Survey_VragenlijstenIngevul
recode survpart 1=0 2/4=1

gen sppart = Main_Survey_VragenlijstSmartPhon
recode sppart 1=0 2/8 =1

** passive data collection
cap drop sharedinf shared*
gen sharedinf = .   // 1 invited no share, 2 never invited, 3 shared
replace sharedinf = 1 if Main_Survey_EerderMeegedaan == 1 & Main_Survey_InformatieGedeeld == 2
replace sharedinf = 2 if Main_Survey_EerderMeegedaan == 2
replace sharedinf = 3 if Main_Survey_EerderMeegedaan == 1 & Main_Survey_InformatieGedeeld == 1
tab sharedinf, gen(shared)

** app experience
cap drop downapp
gen downapp = . // 1 invited no download, 2 never invited, 3 downloaded
replace downapp = 1 if Main_Survey_GevraagdAppDownloade ==1 & Main_Survey_AppGedownload == 2
replace downapp = 2 if Main_Survey_GevraagdAppDownloade == 2
replace downapp = 3 if Main_Survey_GevraagdAppDownloade ==1 & Main_Survey_AppGedownload == 1
tab downapp, gen(download)

save #datasetname6#, replace
cd "#path2#"
use #datasetname6# clear

********************************************************************************
*** Analytic sample definition
********************************************************************************
keep if netto == 1 // only those who started the survey in dataset
tab Main_GPSFotoVideo_ToestemmingDel if netto ==1 // question about location asked to 1868
tab sharegps if netto == 1
tab sharevid if netto == 1
tab sharefhou if netto == 1
tab sharefrec if netto == 1
tab sharefself if netto == 1

// people who do not use smartphones or tablets
tab1 Main_Device_Apparaten1-Main_Device_Apparaten5

cap drop nomobile
gen nomobile =.

forvalues i = 1/5 {
      replace nomobile = 0 if Main_Device_Apparaten`i' == 1
      replace nomobile = 0 if Main_Device_Apparaten`i' == 4
}
tab nomobile, m // 15 persons 0.76% no sp or tablet but paradata indicates fill in on smartphone/mob/tab
tab DeviceType_1 if nomobile == .
```

```
tab1 DeviceType_*
br DeviceType_* // from _18 -> no observations

tab DeviceType_1 // 21   (1.07%) started response on a device that is a PC according to paradata
tab DeviceType_2
tab Main_Device_WelkeDeviceInvullen //

tab Main_Device_WelkeDeviceInvullen  if netto ==1 & sharegps ==., m // 1868 received WTP questions

gen ansample = 0
replace ansample = 1 if sharegps != .
tab ansample,m

*** Device switch
tab DeviceSwitch if netto==1 // 6.06% of respondents switched devices

*keep if netto ==1 // only respondents in dataset

tab1 DeviceType_1-DeviceType_34

forvalues i = 2/17 {
        display "LOGIN"" `i'
        levelsof id if DeviceType_`i' <.
}

tab Main_Device_WelkeDeviceInvullen if sharegps==.
// GPS question was not asked for those who indicated to fill out on PC, other device

tab DeviceSwitch

// EXCLUDING 82 persons who indicated to be using pc/laptop or other device
drop if Main_Device_WelkeDeviceInvullen == 3 | Main_Device_WelkeDeviceInvullen == 5
tab DeviceType_1 DeviceSwitch

* Droped overall: 97 participants (4.94%) who were not asked the sensor questions
* 15 did not use smartphones or tablets and 82 said they are filling out on PC or other
drop if sharegps == .
save #datasetname7#, replace

*******************************************************************************
*** Descriptives and Willingness & participation rates
cd "#path2#"
use #datasetname7#, clear

* Descriptives
foreach var of varlist  age man numactiv freqgps ///
        freqphoto freqvideo spskill concern Main_Privacy_VertrouwenBedrijven ///
        Main_Privacy_VertrouwenOverheids Main_Privacy_VertrouwenSocialeMe ///
        concern_ds sa_enjoy sa_value sa_burden survpart sppart sharedinf ///
        shared1 shared2 shared3 download1 download2 download3 educ1 educ2 educ3  {
```

```
        sum `var'
        }

cap drop sp_part_all
gen sp_part_all = sppart // recode nonpart on online to 0 on smartphone part
replace sp_part_all = 0 if survpart == 0
tab sp_part_all
sum sp_part_all


*** Hypothetical willingness & actual data collection
tab1 sharegps sharevid sharefhou sharefrec sharefself // hypothetical willingness
tab1 gpslocation video phouse preceipt pself // actual data sharing

// some people have revoked their measures
// recoding those who indicate 0 in willingness but then provide the data as missing for actual data
replace gpslocation = 0 if sharegps==0 & gpslocation==1 // 13 persons
replace video =0 if sharevid==0 & video==1 // 15 pers
replace phouse =0 if sharefhou==0 & phouse==1 // 4 pers
replace preceipt =0 if sharefrec==0 & preceipt==1 // 1 pers
replace pself=0 if sharefself==0 & pself==1 // 1 pers

** sharing conditional on willing
cap drop condigps condivideo condiphouse condipreceipt condipself
clonevar condigps = gpslocation
replace condigps=. if sharegps==0

clonevar condivideo = video
replace condivideo=. if sharevid==0

clonevar condiphouse = phouse
replace condiphouse =. if sharefhou==0

clonevar condipreceipt = preceipt
replace condipreceipt =. if sharefrec==0

clonevar condipself = pself
replace condipself =. if sharefself==0
tab1 condigps condivideo condiphouse condipreceipt condipself

--------------------------------------------------------------------------------
*** Benefit framing:
tab1 sharegps sharevid sharefhou sharefrec sharefself if dumgain == 1
tab1 condigps condivideo condiphouse condipreceipt condipself if dumgain == 1

        * Control condition for benefit framing:
        tab1 sharegps sharevid sharefhou sharefrec sharefself if dumgain == 0
        tab1 condigps condivideo condiphouse condipreceipt condipself if dumgain == 0

*** Control over data collection
tab1 sharegps sharevid sharefhou sharefrec sharefself if dumcon == 1
tab1 condigps condivideo condiphouse condipreceipt condipself if dumcon == 1
```

```
     * Control condition for control:
     tab1 sharegps sharevid sharefhou sharefrec sharefself if dumcon == 0
     tab1 condigps condivideo condiphouse condipreceipt condipself if dumcon == 0


*** Privacy
tab1 sharegps sharevid sharefhou sharefrec sharefself if dumpriv == 1
tab1 condigps condivideo condiphouse condipreceipt condipself if dumpriv == 1

     * Control condition for privacy:
     tab1 sharegps sharevid sharefhou sharefrec sharefself if dumpriv == 0
     tab1 condigps condivideo condiphouse condipreceipt condipself if dumpriv == 0


*---- Table 1 ----
*** No text condition
tab1 sharegps sharevid sharefhou sharefrec sharefself if dumgain == 0 & dumcon == 0 & dumpriv == 0
tab1 condigps condivideo condiphouse condipreceipt condipself if dumgain == 0 & dumcon == 0 & dumpriv == 0


*** Benefit only
tab1 sharegps sharevid sharefhou sharefrec sharefself if dumgain == 1 & dumcon == 0 & dumpriv == 0
tab1 condigps condivideo condiphouse condipreceipt condipself if dumgain == 1 & dumcon == 0 & dumpriv == 0


*** Control/autonomy over data collection only
tab1 sharegps sharevid sharefhou sharefrec sharefself if dumgain == 0 & dumcon == 1 & dumpriv == 0
tab1 condigps condivideo condiphouse condipreceipt condipself if dumgain == 0 & dumcon == 1 & dumpriv == 0


*** Privacy only
tab1 sharegps sharevid sharefhou sharefrec sharefself if dumgain == 0 & dumcon == 0 & dumpriv == 1
tab1 condigps condivideo condiphouse condipreceipt condipself if dumgain == 0 & dumcon == 0 & dumpriv == 1




****** Significance tests
* WTS benefit
sum sharegps if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharegps if dumgain == 1 & dumcon == 0 & dumpriv == 0
return list
ztesti 235 .6340425531914894 .4827257878088507   237 .5991561181434599 .4911066335571638, level(95)


sum sharevid if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharevid if dumgain == 1 & dumcon == 0 & dumpriv == 0
return list
ztesti 235  .1702127659574468 .3766217885773547    237 .1265822784810127 .333208157859735


sum sharefhou if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharefhou if dumgain == 1 & dumcon == 0 & dumpriv == 0
return list
ztesti 235 .1276595744680851 .3344226608557429    237 .0928270042194093 .2908040133542459
```

```
sum sharefrec if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharefrec if dumgain == 1 & dumcon == 0 & dumpriv == 0
return list
ztesti 235 .1702127659574468 .3766217885773547  237 .1434599156118143 .3512831374633495


sum sharefself if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharefself if dumgain == 1 & dumcon == 0 & dumpriv == 0
return list
ztesti 235 .1319148936170213 .3391205210079231  237 .1223628691983122  .3283979912383143


* WTS control over data collection
sum sharegps if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharegps if dumgain == 0 & dumcon == 1 & dumpriv == 0
return list
ztesti 235 .6340425531914894 .4827257878088507    237 .7172995780590717 .4512650379200384


sum sharevid if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharevid if dumgain == 0 & dumcon == 1 & dumpriv == 0
return list
ztesti 235  .1702127659574468 .3766217885773547     237 .1729957805907173 .3790441423456217


sum sharefhou if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharefhou if dumcon == 1 & dumgain == 0 &  dumpriv == 0
return list
ztesti 235 .1276595744680851 .3344226608557429    237 .1308016877637131 .33789695851459


sum sharefrec if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharefrec if dumgain == 0 & dumcon == 1 & dumpriv == 0
return list
ztesti 235 .1702127659574468 .3766217885773547    237 .2362869198312236  .4256994866351198


sum sharefself if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharefself if dumgain == 0 & dumcon == 1 & dumpriv == 0
return list
ztesti 235 .1319148936170213 .3391205210079231  237 .1687763713080169 .3753469871935186


* WTS privacy
sum sharegps if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharegps if dumgain == 0 & dumcon == 0 & dumpriv == 1
return list
ztesti 235 .6340425531914894 .4827257878088507 265 .6226415094339622 .4856429311786321
```

```
sum sharevid if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharevid if dumgain == 0 & dumcon == 0 & dumpriv == 1
return list
ztesti 235  .1702127659574468 .3766217885773547  265 .1509433962264151 .3586710748941078


sum sharefhou if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharefhou if dumgain == 0 & dumcon == 0 & dumpriv == 1
return list
ztesti 235 .1276595744680851 .3344226608557429  265 .1207547169811321 .3264585514586329


sum sharefrec if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharefrec if dumgain == 0 & dumcon == 0 & dumpriv == 1
return list
ztesti 235 .1702127659574468 .3766217885773547  265 .1735849056603773 .3794687990708427


sum sharefself if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharefself if dumgain == 0 & dumcon == 0 & dumpriv == 1
return list
ztesti 235 .1319148936170213 .3391205210079231   265 .1660377358490566 .3728186029315382


* actual sharing GPS
sum condigps if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum condigps if dumgain == 1 & dumcon == 0 & dumpriv == 0
return list
ztesti 149 .7449664429530202 .4373501660971845    142 .6971830985915493 .461103157943543


sum condigps if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum condigps if dumgain == 0 & dumcon == 1 & dumpriv == 0
return list
ztesti 149 .7449664429530202 .4373501660971845   170 .6647058823529411 .4734878471358178


sum condigps if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum condigps if dumgain == 0 & dumcon == 0 & dumpriv == 1
return list
ztesti 149 .7449664429530202 .4373501660971845   165 .7151515151515152 .4527162009587189


*** Additional groups

* WTS benefit x control (in paper "autonomy" phrasing is used) over data collection
sum sharegps if dumgain == 1 & dumcon == 1 & dumpriv == 0
return list
     ztesti 235 .6340425531914894 .4827257878088507   224 .7589285714285714 .4286915270545403


sum sharevid if dumgain == 1 & dumcon == 1 & dumpriv == 0
```

```
return list
      ztesti 235  .1702127659574468 .3766217885773547    224 .1785714285714286 .383850814496828


sum sharefhou if dumgain == 1 & dumcon == 1 & dumpriv == 0
return list
      ztesti 235 .1276595744680851 .3344226608557429    224  .1517857142857143 .3596166725627967


sum sharefrec if dumgain == 0 & dumcon == 0 & dumpriv == 0
return list
sum sharefrec if dumgain == 1 & dumcon == 1 & dumpriv == 0
return list
      ztesti 235 .1702127659574468 .3766217885773547  224 .2008928571428572 .4015654425027481


sum sharefself if dumgain == 1 & dumcon == 1 & dumpriv == 0
return list
      ztesti 235 .1319148936170213 .3391205210079231  224 .1651785714285714 .3721733097006762


* WTS control (i.e. autonomy) over data collection x privacy
sum sharegps if dumgain == 0 & dumcon == 1 & dumpriv == 1
return list
ztesti 235 .6340425531914894 .4827257878088507   233 .6781115879828327 .468206266707426


sum sharevid if dumgain == 0 & dumcon == 1 & dumpriv == 1
return list
ztesti 235  .1702127659574468 .3766217885773547    233 .1802575107296137 .385229357059309


sum sharefhou if dumcon == 1 & dumgain == 0 &  dumpriv == 1
return list
ztesti 235 .1276595744680851 .3344226608557429   233 .1287553648068669 .335650032334288


sum sharefrec if dumgain == 0 & dumcon == 1 & dumpriv == 1
return list
ztesti 235 .1702127659574468 .3766217885773547    233 .1502145922746781 .3580508131343199


sum sharefself if dumgain == 0 & dumcon == 1 & dumpriv == 1
return list
ztesti 235 .1319148936170213 .3391205210079231  233 .111587982832618 .3155367105695218


* WTS benefit x privacy
sum sharegps if dumgain == 1 & dumcon == 0 & dumpriv == 1
return list
ztesti 235 .6340425531914894 .4827257878088507    227 .5947136563876652 .4920323411364158


sum sharevid if dumgain == 1 & dumcon == 0 & dumpriv == 1
return list
ztesti 235  .1702127659574468 .3766217885773547   227 .13215859030837 .3394115306338421


sum sharefhou if dumgain == 1 & dumcon == 0 & dumpriv == 1
return list
ztesti 235 .1276595744680851 .3344226608557429  227 .1233480176211454 .3295629682310175
```

```
sum sharefrec if dumgain == 1 & dumcon == 0 & dumpriv == 1
return list
ztesti 235 .1702127659574468 .3766217885773547  227 .1762114537444934 .3818419601393992


sum sharefself if dumgain == 1 & dumcon == 0 & dumpriv == 1
return list
ztesti 235 .1319148936170213 .3391205210079231   227 .1365638766519824 .3441452141521703


* WTS benefit x control (i.e. autonomy) x privacy
sum sharegps if dumgain == 1 & dumcon == 1 & dumpriv == 1
return list
ztesti 235 .6340425531914894 .4827257878088507   210 .7285714285714285 .4457592384923712


sum sharevid if dumgain == 1 & dumcon == 1 & dumpriv == 1
return list
ztesti 235  .1702127659574468 .3766217885773547  210 .1476190476190476 .3555695580898862


sum sharefhou if dumgain == 1 & dumcon == 1 & dumpriv == 1
return list
ztesti 235 .1276595744680851 .3344226608557429  210 .119047619047619 .3246183590946291


sum sharefrec if dumgain == 1 & dumcon == 1 & dumpriv == 1
return list
ztesti 235 .1702127659574468 .3766217885773547  210 .2523809523809524 .4354165883117903


sum sharefself if dumgain == 1 & dumcon == 1 & dumpriv == 1
return list
ztesti 235 .1319148936170213 .3391205210079231  210 .1523809523809524  .3602485155235031


* Additional actual sharing GPS
sum condigps if dumgain == 1 & dumcon == 1 & dumpriv == 0
return list
ztesti 149 .7449664429530202 .4373501660971845    170 .711764705882353 .4542792626249809


sum condigps if dumgain == 0 & dumcon == 1 & dumpriv == 1
return list
ztesti 149 .7449664429530202 .4373501660971845   158  .6075949367088608 .4898386974590104


sum condigps if dumgain == 1 & dumcon == 0 & dumpriv == 1
return list
ztesti 149 .7449664429530202 .4373501660971845   135 .7037037037037037 .4583239106524254


sum condigps if dumgain == 1 & dumcon == 1 & dumpriv == 1
return list
ztesti 149 .7449664429530202 .4373501660971845 153 .6470588235294118 .4794540238549595


********************************************************************************
********************** Analysis experimental conditions *********************
cd "#path2#"
use #datasetname7#, clear
```

```
***************** Table 2: Baseline
tab gpslocation,m
logit sharegps dumgain dumcon dumpriv, or vce(cluster sleutel)
margins, dydx(*)
logit condigps dumgain dumcon dumpriv, or vce(cluster sleutel)
margins, dydx(*)
logit video dumgain dumcon dumpriv, or vce(cluster sleutel)
margins, dydx(*)
logit phouse dumgain dumcon dumpriv, or vce(cluster sleutel)
margins, dydx(*)
logit preceipt dumgain dumcon dumpriv, or vce(cluster sleutel)
margins, dydx(*)
logit pself dumgain dumcon dumpriv, or vce(cluster sleutel)
margins, dydx(*)


***************** Respondent characterisitcs
logit  sharegps dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo    ///
          concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
          man age educ2 educ3, or vce(cluster sleutel)
margins, dydx(*)

logit  condigps dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo    ///
          concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
          man age educ2 educ3, or vce(cluster sleutel)
margins, dydx(*)

logit  video dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo   ///
          concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
          man age educ2 educ3, or vce(cluster sleutel)
margins, dydx(*)

logit  preceipt dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo    ///
          concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
          man age educ2 educ3, or vce(cluster sleutel)
margins, dydx(*)

logit  phouse dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo    ///
          concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
          man age educ2 educ3, or vce(cluster sleutel)
margins, dydx(*)

logit  pself dumgain dumcon dumpriv numactiv spskill  freqgps freqphoto freqvideo   ///
          concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
          man age educ2 educ3, or    vce(cluster sleutel)
margins, dydx(*)

***************** Respondent characterisitcs + interactions (Table B1)
tab1 concern concern_ds
gen dumgain_concern = dumgain * concern
gen dumgain_concernds = dumgain * concern_ds
```

```
gen dumcon_concern = dumcon * concern
gen dumcon_concernds = dumcon * concern_ds
gen dumpriv_concern = dumpriv * concern
gen dumpriv_concernds = dumpriv * concern_ds
gen dumgain_numactiv = dumgain * numactiv
gen dumcon_numactiv = dumcon * numactiv
gen dumpriv_numactiv = dumpriv * numactiv


logit  sharegps dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo    ///
         concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
         dumgain_concern dumgain_concernds dumcon_concern dumcon_concernds dumpriv_concern  dumpriv_concernds ///
         man age educ2 educ3, or vce(cluster sleutel)


logit  condigps dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo    ///
         concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
         dumgain_concern dumgain_concernds dumcon_concern dumcon_concernds dumpriv_concern  dumpriv_concernds ///
         man age educ2 educ3, or vce(cluster sleutel)


logit  video dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo   ///
         concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
         dumgain_concern dumgain_concernds dumcon_concern dumcon_concernds dumpriv_concern  dumpriv_concernds ///
         man age educ2 educ3, or vce(cluster sleutel)


logit  preceipt dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo    ///
         concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
         dumgain_concern dumgain_concernds dumcon_concern dumcon_concernds dumpriv_concern  dumpriv_concernds ///
         man age educ2 educ3, or vce(cluster sleutel)


logit  phouse dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo    ///
         concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
         dumgain_concern dumgain_concernds dumcon_concern dumcon_concernds dumpriv_concern  dumpriv_concernds ///
         man age educ2 educ3, or vce(cluster sleutel)


logit  pself dumgain dumcon dumpriv numactiv spskill  freqgps freqphoto freqvideo   ///
         concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
         dumgain_concern dumgain_concernds dumcon_concern dumcon_concernds dumpriv_concern  dumpriv_concernds ///
         man age educ2 educ3, or   vce(cluster sleutel)

         * with smartphone activities (Table B2)
logit  sharegps dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo    ///
         concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
         dumgain_concern dumgain_concernds dumcon_concern dumcon_concernds dumpriv_concern  dumpriv_concernds ///
         dumgain_numactiv dumcon_numactiv dumpriv_numactiv ///
         man age educ2 educ3, or vce(cluster sleutel)


logit  condigps dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo    ///
         concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
         dumgain_concern dumgain_concernds dumcon_concern dumcon_concernds dumpriv_concern  dumpriv_concernds ///
         dumgain_numactiv dumcon_numactiv dumpriv_numactiv ///
         man age educ2 educ3, or vce(cluster sleutel)
```

```
logit  video dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo   ///
           concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
           dumgain_concern dumgain_concernds dumcon_concern dumcon_concernds dumpriv_concern  dumpriv_concernds ///
           dumgain_numactiv dumcon_numactiv dumpriv_numactiv ///
           man age educ2 educ3, or vce(cluster sleutel)

logit  preceipt dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo    ///
           concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
           dumgain_concern dumgain_concernds dumcon_concern dumcon_concernds dumpriv_concern  dumpriv_concernds ///
           dumgain_numactiv dumcon_numactiv dumpriv_numactiv ///
           man age educ2 educ3, or vce(cluster sleutel)

logit  phouse dumgain dumcon dumpriv numactiv spskill freqgps freqphoto freqvideo    ///
           concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
           dumgain_concern dumgain_concernds dumcon_concern dumcon_concernds dumpriv_concern  dumpriv_concernds ///
           dumgain_numactiv dumcon_numactiv dumpriv_numactiv ///
           man age educ2 educ3, or vce(cluster sleutel)

logit  pself dumgain dumcon dumpriv numactiv spskill  freqgps freqphoto freqvideo   ///
           concern concern_ds sa_enjoy sa_value sa_burden survpart sp_part_all shared1 shared3 download1 download3 ///
           dumgain_concern dumgain_concernds dumcon_concern dumcon_concernds dumpriv_concern  dumpriv_concernds ///
           dumgain_numactiv dumcon_numactiv dumpriv_numactiv ///
           man age educ2 educ3, or   vce(cluster sleutel)


cap drop sharinggroup // 1 yes to all tasks & shared, 2 stop after first camera-task ///3 stop after sharing gps, 4 did not share anything
gen sharinggroup = .
replace sharinggroup = 1 if  condigps == 1 & video == 1 & ///
           preceipt == 1 & phouse == 1 & pself == 1

replace sharinggroup = 2 if  condigps == 1 & video == 1 & ///
           preceipt == 1 & phouse == 1 & pself == 0

replace sharinggroup = 3 if  condigps == 1 & video == 1 & ///
           preceipt == 0 & phouse == 1 & pself == 0

replace sharinggroup = 4 if  condigps == 1 & video == 1 & ///
           preceipt == 0 & phouse == 0 & pself == 0

replace sharinggroup = 5 if  condigps == 1 & video == 0 & ///
           preceipt == 0 & phouse == 0 & pself == 0

replace sharinggroup = 6 if  condigps == 0 | condigps ==. & video == 0 & ///
           preceipt == 0 & phouse == 0 & pself == 0

tab sharinggroup,m

cap drop sumsensor
egen sumsensor = rowtotal(condigps video preceipt phouse pself)  if sharinggroup ==.
br sharinggroup sharegps condigps video preceipt phouse pself sumsensor
```

```
tab sumsensor
sum sumsensor


******************************************************************************
****** Nonresponse & nonconsent bias ****************************************
set scrollbufsize 2048000
cd "#path2#"
use #datasetname6#, clear
recode netto . = 0
tab netto
tab1  lft /// age (1)
           ETNGROEP3 /// ethnic background (2)
           vrlgbageslacht /// gender = man (3)
           BURKLASSE4 /// marital status (4)
           autop /// (5) owns a car
           brommerop /// (6)
           rijbewijsp /// (7) driver's license
           oplnivhg /// (8) education
           oplnivhb ///
           oplnivact ///
           vrlaantalpershh /// (9) number of people in the household
           lftjknd /// (10)
           typeeigenaar /// (11)
           gemgrootte /// (12)
           inppink /// (13)
           inpsecj /// (14)
           INHP100HBRUT // (15)


* Age as a categorical (dummy) variable
sum lft, detail
cap drop lft_grp
gen lft_grp = .
replace lft_grp = 1 if lft >=16 & lft < 25
replace lft_grp = 2 if lft >=25 & lft < 35
replace lft_grp = 3 if lft >=35 & lft < 45
replace lft_grp = 4 if lft >=45 & lft < 55
replace lft_grp = 5 if lft >=55 & lft < 65
replace lft_grp = 6 if lft >=65 & lft < .
tab lft_grp if netto ==1
tab lft lft_grp,m


* modal category (25-34):
cap drop lft_mod
gen lft_mod = lft_grp
recode lft_mod 2=1 1=0 3/6=0
tab lft_grp lft_mod,m
tab lft lft_mod,m


sum lft_mod
* (1) age modal category
```

```
tab lft_mod, m
cap drop nrb_age
gen nrb_age = lft_mod

sum nrb_age
sum nrb_age if netto == 1
sum nrb_age if netto == 0

di sqrt((r(mean)*(1-r(mean)))/r(N))*100 // se
di ((3608 - 1647)/3608)*sqrt(((.90739679)^2)+((1.0502789)^2))

* (3) gender
tab vrlgbageslacht,m
cap drop nrb_man
gen nrb_man = vrlgbageslacht
recode nrb_man 2=0

* ethnic background (2)
tab ETNGROEP3, nol
gen nondutch = .
replace nondutch = 1 if ETNGROEP3 >1 & ETNGROEP3 <.
replace nondutch =0 if ETNGROEP3==1
tab ETNGROEP3 nondutch, m

* marital status (4)
tab BURKLASSE4, nol
gen nrb_marr = BURKLASSE4
recode nrb_marr 2/4=0
tab nrb_marr, m

* driver's license (7)
tab rijbewijsp
gen nrb_dr = rijbewijsp

* education (8)
tab oplnivhb, nol
*1. no education, basis & vbmo 2. havo/vwo & mbo 3. hbo & wo
gen nrb_edu = oplnivhb
recode nrb_edu 11=0 12=0 21=0 31=1 32=1
tab nrb_edu

* Number of ppl in hh as a categorical (dummy) variable
* modal category:
sum vrlaantalpershh, detail
tab vrlaantalpershh,m

cap drop hh_grp
gen hh_grp = vrlaantalpershh
recode hh_grp 4/9 = 4
tab vrlaantalpershh hh_grp,m
tab hh_grp if netto == 1
```

```
cap drop hh_mod
gen hh_mod = .
replace hh_mod = 0 if vrlaantalpershh > 2 & vrlaantalpershh <.
replace hh_mod = 1 if vrlaantalpershh == 2
replace hh_mod = 0 if vrlaantalpershh < 2
tab vrlaantalpershh hh_mod,m
sum hh_mod

* number of people in the household (9)
cap drop nrb_hh
gen nrb_hh = hh_mod

* homeowner (11)
tab    typeeigenaar, nol
gen owner = typeeigenaar
recode owner 2=0 3=0 9=.

* urbanicity (12)
tab stedgem, nol
gen nrb_urb = stedgem
recode nrb_urb 2=1 3/5=0
tab nrb_urb

* size of gemeente (12)
tab gemgrootte
cap drop nrb_ggr
gen nrb_ggr = gemgrootte
recode nrb_ggr 1/4 = 0 5/8=1
tab nrb_ggr


* in paid work: employed/self-employed etc.
/* 1: Werknemer | Directeur-grootaandeelhouder | Zelfstandig ondernemer |
 Overige zelfstandige |  Meewerkend gezinslid |
   0: Ontvanger werkloosheidsuitkering |  Ontvanger bijstandsuitkering |
Ontvanger uitkering sociale voorziening | Ontvanger uitkering ziekte/arbeidsonges |
           Ontvanger pensioenuitkering |  Nog niet schoolgaand/scholier/student m |
Nog niet schoolgaand/scholier/student z |   Overig zonder inkomen |
Behoort tot huishouden zonder waargenom
*/

* in paid work (13)
cap drop nrb_work
tab inpsecj
gen nrb_work = inpsecj
recode nrb_work 1/15 = 1 20/99 = 0
tab inpsecj nrb_work, m
tab nrb_work
tab INHP100HGEST,m
```

```
* Income percentile as a categorical (dummy) variable
cap drop pinc
gen pinc = INHP100HGEST
replace pinc =. if INHP100HGEST < 0
sum pinc, detail

cap drop pinc_grp
gen pinc_grp = .
replace pinc_grp = 1 if INHP100HGEST < 25 & INHP100HGEST> 0
replace pinc_grp = 2 if INHP100HGEST >=25 & INHP100HGEST < 50
replace pinc_grp = 3 if INHP100HGEST >=50 & INHP100HGEST < 75
replace pinc_grp = 4 if INHP100HGEST >= 75 & INHP100HGEST < .
tab INHP100HGEST pinc_grp,m
tab pinc_grp if netto == 1

cap drop pinc_mod
gen pinc_mod = pinc_grp
recode pinc_mod 1/3=0 4=1
tab  pinc_grp pinc_mod,m
sum pinc_mod

* income percentile (15)
tab INHP100HGEST
gen nrb_pinc = pinc_mod
replace nrb_pinc = . if nrb_pinc <0
tab INHP100HGEST if nrb_pinc==.


*** loop for se of bias (Table 3)
lookfor adminvar
cap drop adminvar*
cap drop nettovar*

global num = 0
foreach var of varlist  nrb_age nrb_man nrb_edu nondutch nrb_marr nrb_hh autop ///
                                  nrb_dr owner nrb_urb nrb_ggr nrb_work nrb_pinc {
      global num = $num+1
      clonevar adminvar_$num = `var'
      }

forvalues i=1/13 {
      clonevar nettovar_`i' = adminvar_`i'
      replace nettovar_`i' = . if nettodataset == 0
      }

* Calculating bias & standard errors (Lee 2006 formula)
forvalues i = 1/13 {
      sum adminvar_`i' if nettodataset == 1
      global respmean = r(mean)
      global respsd = r(sd)
      global respn = r(N)
```

```
        sum adminvar_`i'
        global adminm = r(mean)
        global adminsd = r(sd)
        global adminn = r(N)

        sum adminvar_`i' if nettodataset == 0
        global nrmean = r(mean)
        global nrsd = r(sd)
        global nrn = r(N)
        di sqrt(($nrmean*(1-$nrmean))/$nrn)*100 // se-nr
        *di sqrt($nrmean*(1-$nrmean))*100 // sd
        di sqrt(($respmean*(1-$respmean))/$respn)*100 // se-r

        global respvar = $respmean * (1-$respmean) /$respn *100
        global nrvar =   $nrmean * (1-$nrmean) /$nrn *100
        global se_nrb = (($adminn - $respn)/$adminn) * sqrt($respvar+$nrvar)
        global nrbias = ($respmean*100-$adminm*100)
        di $nrbias
        di $se_nrb

        global respmean = $respmean*100
        global respsd =  $respsd*100
        global adminm = $adminm*100
        global adminsd = $adminsd*100

        global sddiff = $se_nrb*sqrt($adminn)
        ttesti $adminn $respmean $respsd $adminm , level(95)  // one-sample t-test
        }

****** Nonparticipation bias ********
* GPS & co:
foreach var of varlist gpslocation video phouse preceipt pself {

        forvalues i = 1/13 {
                sum adminvar_`i' if `var' == 1
                global partm = r(mean)
                global partsd = r(sd)
                global partn = r(N)

                sum adminvar_`i' if nettodataset == 1
                global respmean = r(mean)
                global respsd = r(sd)
                global respn = r(N)

                sum adminvar_`i' if `var' == 0
                global nonpmean = r(mean)
                global nonpsd = r(sd)
                global nonpn = r(N)
                di sqrt(($nonpmean*(1-$nonpmean))/$nonpn)*100 // se-nonparticipants
                di sqrt(($partm*(1-$partm))/$partn)*100 // se-participants
```

```
        global partvar = $partm * (1-$partm) /$partn *100
        global nonpvar =    $nonpmean * (1-$nonpmean) /$nonpn *100
        global se_nonp = (($respn-$partn)/$respn) * sqrt($partvar+$nonpvar)
        global nonpbias = ($partm*100-$respmean*100)
        di $nonpbias
        di $se_nonp

            global respmean = $respmean*100
            global respsd =  $respsd*100
            global partm = $partm*100
            global partsd = $partsd*100

            ttesti $respn $partm $partsd $respmean , level(95)

        }
    }

** Average absolute bias **
di (1.65+ 0.93+ 3.40+ 1.79+ 2.66+ 2.87+ 2.50+ 2.79+ 2.15+ 0.86+ 1.00+ 0.38+ 4.18)/13
di (1.34+ 1.10+ 2.22+ 1.61+ 0.47+ 0.83+ 1.44+ .339+ 0.10+ 0.06+ 0.57+ 0.53+ 0.16)/13
di (2.81+ 1.36+ 0.88+ 0.78+ 2.67+ 0.67+ .994+ .642+ 2.03+ 5.86+ 5.20+ 0.75+ 1.76)/13
di (2.37+ 6.34+ 6.79+ 2.96+ 3.47+ 3.47+ 2.48+ 1.51+ 4.60+ 7.66+ 6.34+ 2.47+ 1.33)/13
di (0.47+ 3.91+ 2.38+ 2.42+ 1.41+ 0.26+ 0.86+ 1.19+ 2.27+ 6.96+ 3.78+ 1.26+ 1.92)/13
di (2.03+ 3.76+ 7.54+ 2.59+ 0.63+ 1.49+ 0.68+ 1.64+ 1.24+ 0.66+ 0.67+ 1.95+ 0.56)/13


* END DO-FILE *
```