Structural equations modeling

Pamela Inostroza 21/04/2020

Data

Write a report on the analysis (10 pages not including appendices & references)

- Theoretical framing of the research problem / Research questions / Hypotheses
- Short description of the dataset used
- Modeling strategy
- Results

##

ipbhprp

ipgdtim

```
##
                        8
                             9
##
     Austria
                     2010 2499
##
     Belgium
                     1766 1767
##
     Czechia
                     2269 2398
##
     Estonia
                     2019 1904
##
     France
                     2070 2010
##
     Germany
                     2852 2358
##
     Ireland
                     2757 2216
##
     Italy
                     2626 2745
##
     Netherlands
                     1681 1673
##
     Norway
                     1545 1406
##
     Poland
                     1694 1500
##
     Slovenia
                     1307 1318
##
     Switzerland
                     1525 1542
     United Kingdom 1959 2204
```

6 27783

7 27832

by(ds_filtradaAll, ds_filtradaAll\$essround,function(x) print(describeFast(x),short=FALSE))

```
##
##
   Number of observations = 28080 of which 9340
                                                     are complete cases.
                                                                           Number of variables =
                                                                                                  37 o
            var n.obs numeric factor logical character type
## ipshabt
              1 27778
                        FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## ipsuces
              2 27790
                        FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## iphlppl
              3 27837
                        FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## iplylfr
              4 27833
                        FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## ipfrule
              5 27681
                        FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
```

FALSE

FALSE

NA

NA

FALSE FALSE

FALSE FALSE

FALSE

FALSE

```
## iprspot
              10 27716
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
                          FALSE
                                 FALSE
## impsafe
              11 27861
                                          FALSE
                                                     FALSE
                                                              NA
              12 27694
## ipstrgv
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## ipcrtiv
              13 27764
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## impfree
              14 27834
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
                          FALSE
                                FALSE
## impdiff
              15 27812
                                          FALSE
                                                     FALSE
                                                              NA
                          FALSE
                                 FALSE
## ipadvnt
              16 27818
                                          FALSE
                                                     FALSE
                                                              NA
## ipmodst
              17 27795
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
##
  imptrad
              18 27847
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
  ipeqopt
              19 27810
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## ipudrst
              20 27780
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
              21 27849
                          FALSE
                                 FALSE
                                                     FALSE
## impenv
                                          FALSE
                                                              ΝA
## cntry
              22 28080
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## dweight
                                          FALSE
                                                     FALSE
              23 28080
                          FALSE
                                 FALSE
                                                              ΝA
              24 28080
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
## pweight
                                                              NA
##
  hhmmb
              25 27962
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
              26 28078
##
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
   gndr
              27 27973
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
##
  agea
              28 27973
                          FALSE
                                 FALSE
                                                     FALSE
## yrbrn
                                          FALSE
                                                              NA
## lvgptnea
              29 24787
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## dvrcdeva
              30 27923
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
              31 14736
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
## marsts
                                                              NA
## chldhhe
                          FALSE
                                 FALSE
              32 18468
                                          FALSE
                                                     FALSE
                                                              NA
              33 28056
                          FALSE
                                 FALSE
## domicil
                                          FALSE
                                                     FALSE
                                                              NA
## eisced
              34 27983
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
  name
              35 28080
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
              36 28080
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
##
   essround
                                                              ΝA
                          FALSE
                                                     FALSE
##
   idno
              37 28080
                                 FALSE
                                          FALSE
                                                              NA
##
##
    Number of observations =
                                27540 of which
                                                  8851
                                                         are complete cases.
                                                                                 Number of variables =
                                                                                                          37 o
##
             var n.obs numeric factor logical character type
##
  ipshabt
               1 27167
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
   ipsuces
               2 27140
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
               3 27207
                          FALSE
                                 FALSE
                                                     FALSE
## iphlppl
                                          FALSE
                                                              NA
## iplylfr
               4 27227
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## ipfrule
               5 27018
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## ipbhprp
               6 27158
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## ipgdtim
               7 27185
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## impfun
               8 27197
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
                                 FALSE
## imprich
               9 27197
                          FALSE
                                          FALSE
                                                     FALSE
                                                              NA
              10 27044
                                 FALSE
## iprspot
                          FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## impsafe
              11 27211
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## ipstrgv
              12 27004
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
              13 27132
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## ipcrtiv
                                 FALSE
## impfree
              14 27203
                          FALSE
                                          FALSE
                                                     FALSE
                                                              NA
              15 27207
                          FALSE
                                 FALSE
                                                     FALSE
## impdiff
                                          FALSE
                                                              ΝA
## ipadvnt
              16 27208
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## ipmodst
              17 27124
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## imptrad
              18 27207
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## ipeqopt
              19 27145
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
## ipudrst
              20 27124
                                                              NA
## impenv
              21 27228
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## cntry
              22 27540
                          FALSE FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## dweight
              23 27540
                          FALSE FALSE
                                          FALSE
                                                     FALSE
                                                              NA
```

```
## pweight
              24 27540
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## hhmmb
              25 27466
                          FALSE
                                 FALSE
                                                     FALSE
                                                              NA
                                          FALSE
## gndr
              26 27540
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
              27 27389
                                 FALSE
## agea
                          FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## yrbrn
              28 27389
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
                          FALSE
                                FALSE
                                          FALSE
                                                     FALSE
## lvgptnea
             29 24300
                                                              NA
## dvrcdeva
              30 27431
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## marsts
              31 14433
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
##
  chldhhe
              32 18100
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## domicil
              33 27522
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
  eisced
              34 27469
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
              35 27540
                          FALSE
                                 FALSE
                                                     FALSE
##
  name
                                          FALSE
                                                              ΝA
   essround
              36 27540
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
##
   idno
              37 27540
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
##
   ds_filtradaAll$essround: 8
             var n.obs numeric factor logical character type
## ipshabt
               1 27778
                          FALSE
                                FALSE
                                          FALSE
                                                     FALSE
## ipsuces
               2 27790
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
                                 FALSE
## iphlppl
               3 27837
                          FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## iplylfr
               4 27833
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
                          FALSE
                                 FALSE
                                                     FALSE
## ipfrule
               5 27681
                                          FALSE
                                                              NA
## ipbhprp
               6 27783
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## ipgdtim
               7 27832
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
               8 27810
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
## impfun
                                                              NA
## imprich
               9 27818
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## iprspot
              10 27716
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
  impsafe
              11 27861
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
##
                          FALSE
##
  ipstrgv
              12 27694
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
  ipcrtiv
              13 27764
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
   impfree
              14 27834
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
##
                                                              ΝA
##
   impdiff
              15 27812
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
                          FALSE
                                 FALSE
##
   ipadvnt
              16 27818
                                          FALSE
                                                     FALSE
                                                              NA
              17 27795
                          FALSE
                                 FALSE
## ipmodst
                                          FALSE
                                                     FALSE
                                                              NA
## imptrad
              18 27847
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              ΝA
              19 27810
                          FALSE
                                 FALSE
                                          FALSE
## ipeqopt
                                                     FALSE
                                                              NA
## ipudrst
              20 27780
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
              21 27849
## impenv
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
              22 28080
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
## cntry
                                                              NA
## dweight
              23 28080
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
                          FALSE
## pweight
              24 28080
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## hhmmb
              25 27962
                          FALSE FALSE
                                          FALSE
                                                     FALSE
                                                              NA
##
   gndr
              26 28078
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## agea
              27 27973
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## yrbrn
              28 27973
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## lvgptnea
              29 24787
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              ΝA
## dvrcdeva
              30 27923
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              ΝA
              31 14736
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
## marsts
                                                              NA
   chldhhe
              32 18468
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
              33 28056
                          FALSE
                                 FALSE
## domicil
                                          FALSE
                                                     FALSE
                                                              NA
## eisced
              34 27983
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
## name
              35 28080
                          FALSE
                                 FALSE
                                          FALSE
                                                     FALSE
                                                              NA
              36 28080
                                 FALSE
                                                     FALSE
## essround
                          FALSE
                                          FALSE
                                                              NA
## idno
                                                     FALSE
              37 28080
                          FALSE
                                 FALSE
                                          FALSE
                                                              NA
```

```
## ds_filtradaAll$essround: 9
           var n.obs numeric factor logical character type
                       FALSE FALSE
                                       FALSE
                                                 FALSE
## ipshabt
              1 27167
                                                         NA
## ipsuces
             2 27140
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## iphlppl
             3 27207
                                       FALSE
## iplylfr
                       FALSE FALSE
                                                 FALSE
             4 27227
                       FALSE FALSE
## ipfrule
              5 27018
                                       FALSE
                                                 FALSE
                                                         NA
                       FALSE FALSE
## ipbhprp
             6 27158
                                       FALSE
                                                 FALSE
                                                         NA
## ipgdtim
             7 27185
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## impfun
             8 27197
                        FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
           9 27197
## imprich
                       FALSE FALSE
                                                 FALSE
                                       FALSE
                                                         NA
## iprspot
          10 27044
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## impsafe
                       FALSE FALSE
           11 27211
                                       FALSE
                                                 FALSE
           12 27004
                       FALSE FALSE
                                       FALSE
                                                 FALSE
## ipstrgv
                                                         NA
## ipcrtiv
            13 27132
                        FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
                       FALSE FALSE
## impfree
            14 27203
                                       FALSE
                                                 FALSE
                                                         NA
## impdiff
            15 27207
                        FALSE FALSE
                                       FALSE
                                                 FALSE
## ipadvnt
           16 27208
                       FALSE FALSE
                                                         NA
                                       FALSE
                                                 FALSE
## ipmodst
            17 27124
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## imptrad
           18 27207
                       FALSE FALSE
                                       FALSE
                                                 FALSE
## ipeqopt
            19 27145
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                       FALSE FALSE
## ipudrst
            20 27124
                                       FALSE
                                                 FALSE
                                                         NA
## impenv
             21 27228
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## cntry
             22 27540
                       FALSE FALSE
                                       FALSE
                                                 FALSE
## dweight
            23 27540
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## pweight
            24 27540
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
             25 27466
                       FALSE FALSE
## hhmmb
                                       FALSE
                                                 FALSE
                                                         NA
## gndr
             26 27540
                       FALSE FALSE
                                       FALSE
                                                 FALSE
## agea
             27 27389
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## yrbrn
             28 27389
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## lvgptnea 29 24300
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## dvrcdeva 30 27431
                        FALSE FALSE
                                       FALSE
                                                 FALSE
            31 14433
                       FALSE FALSE
## marsts
                                       FALSE
                                                 FALSE
                                                         NA
## chldhhe 32 18100
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## domicil 33 27522
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## eisced
            34 27469
                       FALSE FALSE
                                       FALSE
                                                 FALSE
## name
             35 27540
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
## essround 36 27540
                       FALSE FALSE
                                       FALSE
                                                 FALSE
                                                         NA
             37 27540
                       FALSE FALSE
                                                 FALSE
## idno
                                       FALSE
dat2 <- data.frame(reverse.code(keys = rep(-1,5), items = ds_filtradaAll[,items_o], mini = rep(1,5), max
colnames(dat2) <- paste(items_o,"_r",sep = "")</pre>
labels = num lab("
             1 Not like me at all
             2 Not like me
             3 A little like me
             4 Somewhat like me
             5 Like me
             6 Very much like me
")
val_lab(dat2$iphlppl_r) <- labels</pre>
val_lab(dat2$iplylfr_r) <- labels</pre>
val_lab(dat2$ipeqopt_r) <- labels</pre>
```

```
val_lab(dat2$ipudrst_r) <- labels</pre>
val_lab(dat2$impenv_r) <- labels</pre>
var_lab(dat2$iphlppl_r) <- var_lab(ds_filtradaAll$iphlppl)</pre>
var_lab(dat2$iplylfr_r) <- var_lab(ds_filtradaAll$iplylfr)</pre>
var_lab(dat2$ipeqopt_r) <- var_lab(ds_filtradaAll$ipeqopt)</pre>
var_lab(dat2$ipudrst_r) <- var_lab(ds_filtradaAll$ipudrst)</pre>
var_lab(dat2$impenv_r) <- var_lab(ds_filtradaAll$impenv)</pre>
ds_filtradaAll <- cbind(ds_filtradaAll,dat2)</pre>
items <- paste(items_o,"_r",sep = "")</pre>
for (j in round){
  for (i in items){
    print(paste(i,": ", var_lab(eval(parse(text=paste("ds_filtradaAll$",i))))))
    print(use_labels(ds_filtradaAll[ds_filtradaAll$essround == j,],
                     table(eval(parse(text=paste("ds_filtradaAll$",i))), as.character(ds_filtradaAll$cnt
    print(use_labels(ds_filtradaAll[ds_filtradaAll$essround == j,],
                     round(prop.table(table(eval(parse(text=paste("ds_filtradaAll$",i))),as.character(ds
  }
}
   [1] "iphlppl_r : Important to help people and care for others well-being"
##
##
                          Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                               45
                                         2
                                                 57
                                                           9
                                                                 15
                                                                          10
##
     Not like me
                               66
                                        29
                                                202
                                                        115
                                                                107
                                                                          73
                                                                464
                                                                         182
##
     A little like me
                              266
                                        83
                                                783
                                                        384
##
     Somewhat like me
                              942
                                       669
                                               1616
                                                       1163
                                                                778
                                                                         814
##
     Like me
                             1837
                                      1825
                                               1428
                                                       1699
                                                               1424
                                                                        2496
##
     Very much like me
                             1308
                                       914
                                                521
                                                        539
                                                               1257
                                                                        1586
##
     <NA>
                               45
                                        11
                                                 60
                                                          14
                                                                 35
                                                                          49
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                                                                   7
                               16
                                      27
                                                    3
                                                            3
                                                                             6
##
     Not like me
                               89
                                      63
                                                   32
                                                          24
                                                                  66
                                                                            21
##
     A little like me
                                                          276
                                                                 326
                              344
                                     390
                                                   84
                                                                            46
##
     Somewhat like me
                              768
                                    1765
                                                  640
                                                          550
                                                                 814
                                                                           290
##
     Like me
                             2144
                                                 1779
                                                         1338
                                                                1399
                                    1999
                                                                          1472
##
     Very much like me
                             1578
                                    1000
                                                  793
                                                          737
                                                                 510
                                                                           766
##
     <NA>
                               34
                                     127
                                                   23
                                                           23
                                                                  72
                                                                            24
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                     4
                                                     5
     Not like me
                                    21
##
                                                    39
##
     A little like me
                                   77
                                                   218
##
     Somewhat like me
                                  463
                                                   567
##
     Like me
                                                  1844
                                  1452
##
     Very much like me
                                  1026
                                                  1455
##
     <NA>
                                    24
                                                    35
##
##
                          Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                            21.53
                                      0.96
                                             27.27
                                                       4.31
                                                               7.18
                                                                        4.78
##
                                      3.06
                                             21.33
                                                      12.14
                                                                        7.71
     Not like me
                             6.97
                                                              11.30
##
     A little like me
                             6.78
                                      2.12
                                             19.96
                                                       9.79
                                                              11.83
                                                                        4.64
##
     Somewhat like me
                             7.96
                                      5.65
                                             13.65
                                                       9.82
                                                               6.57
                                                                        6.88
```

```
##
     Like me
                             7.61
                                      7.56
                                              5.92
                                                       7.04
                                                               5.90
                                                                      10.34
##
     Very much like me
                             9.35
                                      6.53
                                                       3.85
                                                               8.98
                                                                      11.34
                                              3.72
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                             7.66 12.92
                                                1.44
                                                        1.44
                                                                3.35
                                                                          2.87
##
     Not like me
                             9.40 6.65
                                                3.38
                                                        2.53
                                                                6.97
                                                                         2.22
##
     A little like me
                             8.77 9.94
                                                        7.04
                                                                8.31
                                                2.14
                                                                         1.17
##
     Somewhat like me
                             6.49 14.91
                                                5.41
                                                        4.65
                                                                6.88
                                                                         2.45
##
     Like me
                             8.88 8.28
                                                7.37
                                                        5.54
                                                                5.80
                                                                         6.10
##
     Very much like me
                            11.28 7.15
                                                5.67
                                                        5.27
                                                                3.65
                                                                         5.48
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                 1.91
##
                                                  4.12
     Not like me
                                 2.22
##
     A little like me
                                 1.96
                                                  5.56
##
     Somewhat like me
                                 3.91
                                                  4.79
##
                                                 7.64
     Like me
                                 6.02
##
     Very much like me
                                 7.33
                                                10.40
##
   [1] "iplylfr_r: Important to be loyal to friends and devote to people close"
##
##
                          Austria Belgium Czechia Estonia France Germany
##
                                                24
     Not like me at all
                               26
                                         1
                                                         11
                                                                 17
                                                         44
##
     Not like me
                                                                 44
                                                                          20
                               37
                                        13
                                                88
##
     A little like me
                              179
                                        37
                                               381
                                                        146
                                                                224
                                                                         50
##
     Somewhat like me
                              445
                                      313
                                              1262
                                                        594
                                                                566
                                                                        278
##
     Like me
                             1611
                                      1895
                                              1871
                                                       2218
                                                               1397
                                                                       2204
##
     Very much like me
                             2180
                                      1264
                                               979
                                                        897
                                                               1800
                                                                       2598
##
     <NA>
                               31
                                        10
                                                62
                                                         13
                                                                 32
                                                                          50
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                               20
                                      21
                                                    3
                                                           1
##
     Not like me
                               87
                                      43
                                                   37
                                                          12
                                                                  29
                                                                            58
##
     A little like me
                              341
                                    247
                                                  51
                                                          95
                                                                 167
                                                                            92
##
                              726
                                   1389
                                                  434
                                                                 483
     Somewhat like me
                                                         253
                                                                          366
##
     Like me
                             2196
                                   2282
                                                1927
                                                        1447
                                                                1514
                                                                          1383
##
                             1564
                                                 875
                                                        1121
                                                                 932
     Very much like me
                                   1273
                                                                          688
##
     <NA>
                               39
                                    116
                                                   27
                                                          22
                                                                  61
                                                                            30
##
##
                          Switzerland United Kingdom
##
                                    2
                                                     8
     Not like me at all
##
     Not like me
                                   15
                                                    54
##
     A little like me
                                   27
                                                   212
                                  204
##
     Somewhat like me
                                                   473
##
     Like me
                                 1331
                                                  1912
##
     Very much like me
                                 1461
                                                  1464
##
     <NA>
                                    27
                                                    40
##
##
                          Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                            16.25
                                      0.62
                                             15.00
                                                       6.88
                                                             10.62
                                                                       6.25
                                                                       3.44
##
     Not like me
                             6.37
                                      2.24
                                             15.15
                                                       7.57
                                                              7.57
##
                             7.96
                                     1.65
                                                       6.49
                                                                       2.22
     A little like me
                                             16.94
                                                               9.96
                                     4.02
##
     Somewhat like me
                             5.72
                                             16.21
                                                       7.63
                                                              7.27
                                                                       3.57
##
     Like me
                             6.40
                                     7.52
                                              7.43
                                                       8.81
                                                              5.55
                                                                       8.75
##
     Very much like me
                            11.42
                                      6.62
                                              5.13
                                                       4.70
                                                              9.43
                                                                      13.60
```

```
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
     Not like me at all
                            12.50 13.12
##
                                                 1.88
                                                        0.62
                                                                5.00
                                                                4.99
                                                                          9.98
##
     Not like me
                            14.97 7.40
                                                 6.37
                                                        2.07
##
     A little like me
                            15.16 10.98
                                                 2.27
                                                        4.22
                                                                7.43
                                                                          4.09
##
     Somewhat like me
                             9.32 17.84
                                                        3.25
                                                                6.20
                                                 5.57
                                                                          4.70
##
                             8.72 9.06
     Like me
                                                 7.65
                                                        5.74
                                                                6.01
                                                                          5.49
     Very much like me
##
                             8.19 6.67
                                                 4.58
                                                        5.87
                                                                4.88
                                                                          3.60
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                 1.25
                                                  9.29
##
     Not like me
                                 2.58
##
     A little like me
                                 1.20
                                                  9.43
##
                                                  6.08
     Somewhat like me
                                 2.62
##
     Like me
                                 5.28
                                                  7.59
##
     Very much like me
                                 7.65
                                                  7.67
##
   [1] "ipeqopt_r : Important that people are treated equally and have equal opportunities"
##
##
                          Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                               47
                                         8
                                                53
                                                         51
##
     Not like me
                               86
                                        54
                                                212
                                                        329
                                                                 71
                                                                         194
##
     A little like me
                              296
                                       117
                                                        420
                                                                271
                                                                         240
                                                568
##
     Somewhat like me
                                                       1059
                                                                644
                                                                         750
                              902
                                       699
                                              1362
##
     Like me
                             1800
                                      1680
                                               1627
                                                       1627
                                                               1215
                                                                       2340
     Very much like me
##
                                                        422
                                                               1825
                                                                       1581
                             1333
                                       957
                                                751
##
     <NA>
                               45
                                        18
                                                94
                                                         15
                                                                 36
                                                                          57
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
                                                                  20
     Not like me at all
                               34
                                      31
                                                   11
                                                          12
##
     Not like me
                              129
                                     112
                                                   65
                                                         104
                                                                  80
                                                                            54
##
     A little like me
                              438
                                     402
                                                   77
                                                         292
                                                                 223
                                                                            48
##
     Somewhat like me
                              854
                                    1727
                                                  501
                                                         437
                                                                 575
                                                                           222
##
     Like me
                             1937
                                    1834
                                                 1871
                                                        1318
                                                                1425
                                                                          1325
##
                             1542
                                                                           940
     Very much like me
                                    1121
                                                  805
                                                         763
                                                                 809
##
     <NA>
                               39
                                     144
                                                   24
                                                          25
                                                                  62
                                                                            28
##
##
                          Switzerland United Kingdom
##
                                   21
                                                    28
     Not like me at all
##
     Not like me
                                  102
                                                   139
##
     A little like me
                                  178
                                                   326
##
     Somewhat like me
                                  426
                                                   663
##
     Like me
                                 1342
                                                  1661
                                                  1304
##
     Very much like me
                                  962
##
     <NA>
                                    36
                                                    42
##
##
                          Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                            12.05
                                      2.05
                                             13.59
                                                      13.08
                                                               4.62
                                                                       12.31
##
     Not like me
                                      3.12
                             4.97
                                             12.25
                                                      19.01
                                                               4.10
                                                                       11.21
##
     A little like me
                             7.60
                                      3.00
                                             14.58
                                                      10.78
                                                               6.96
                                                                       6.16
##
     Somewhat like me
                             8.34
                                      6.46
                                             12.59
                                                       9.79
                                                               5.95
                                                                       6.93
                                      7.30
##
                             7.83
                                              7.07
                                                       7.07
                                                               5.28
                                                                       10.17
     Like me
##
     Very much like me
                             8.82
                                      6.33
                                              4.97
                                                       2.79
                                                              12.07
                                                                       10.46
##
```

Ireland Italy Netherlands Norway Poland Slovenia

##

```
##
     Not like me at all
                            8.72 7.95
                                                2.82
                                                       3.08
                                                               5.13
                                                                        2.05
##
     Not like me
                            7.45 6.47
                                                3.76
                                                       6.01
                                                               4.62
                                                                        3.12
##
     A little like me
                           11.24 10.32
                                                1.98
                                                       7.49
                                                              5.72
                                                                        1.23
##
     Somewhat like me
                            7.89 15.96
                                                4.63
                                                       4.04
                                                              5.31
                                                                        2.05
##
     Like me
                            8.42 7.97
                                                8.13
                                                       5.73
                                                               6.20
                                                                        5.76
##
     Very much like me
                           10.20 7.42
                                                5.33
                                                       5.05
                                                              5.35
                                                                        6.22
##
##
                         Switzerland United Kingdom
##
     Not like me at all
                                 5.38
                                                 7.18
##
                                 5.89
                                                 8.03
     Not like me
##
     A little like me
                                 4.57
                                                 8.37
##
     Somewhat like me
                                 3.94
                                                 6.13
##
     Like me
                                 5.83
                                                 7.22
##
                                 6.36
                                                 8.63
     Very much like me
##
   [1] "ipudrst_r: Important to understand different people"
##
##
                         Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                              63
                                        9
                                                96
                                                        15
                                                                37
##
     Not like me
                             129
                                       72
                                               296
                                                       137
                                                               142
                                                                       108
##
     A little like me
                             360
                                      170
                                              815
                                                       343
                                                               482
                                                                       223
##
     Somewhat like me
                            1168
                                      852
                                              1628
                                                       956
                                                               823
                                                                       787
##
     Like me
                            1728
                                     1811
                                              1357
                                                      1899
                                                              1412
                                                                      2707
     Very much like me
##
                            1011
                                      602
                                               384
                                                              1150
                                                                      1310
                                                       560
##
     <NA>
                                       17
                                                        13
                                                                34
                               50
                                                91
##
##
                         Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                              33
                                     37
                                                  11
                                                          4
                                                                 19
##
     Not like me
                             177
                                    126
                                                 104
                                                         63
                                                                122
                                                                          81
##
     A little like me
                             530
                                    583
                                                 178
                                                                382
                                                                         116
                                                        319
##
     Somewhat like me
                             940
                                   1857
                                                 779
                                                        594
                                                                698
                                                                         375
##
     Like me
                            2166
                                   1818
                                                1765
                                                       1436
                                                               1427
                                                                        1525
##
     Very much like me
                            1088
                                    770
                                                 489
                                                        512
                                                                461
                                                                         495
##
     <NA>
                               39
                                    180
                                                  28
                                                         23
                                                                 85
                                                                          25
##
##
                         Switzerland United Kingdom
##
     Not like me at all
                                    7
##
     Not like me
                                   55
                                                  126
##
     A little like me
                                  120
                                                  364
##
     Somewhat like me
                                  535
                                                  716
##
     Like me
                                 1550
                                                 1945
##
     Very much like me
                                  768
                                                  944
##
     <NA>
                                   32
                                                   42
##
##
                         Austria Belgium Czechia Estonia France Germany
##
                                     2.35
     Not like me at all
                           16.45
                                             25.07
                                                      3.92
                                                              9.66
                                                                      4.70
##
     Not like me
                            7.42
                                                                      6.21
                                     4.14
                                             17.03
                                                      7.88
                                                              8.17
##
     A little like me
                            7.22
                                     3.41
                                             16.35
                                                      6.88
                                                              9.67
                                                                      4.47
##
                                     6.70
                                                      7.52
     Somewhat like me
                            9.19
                                             12.81
                                                              6.48
                                                                      6.19
##
     Like me
                            7.04
                                     7.38
                                             5.53
                                                      7.74
                                                              5.75
                                                                     11.03
##
     Very much like me
                            9.59
                                     5.71
                                             3.64
                                                      5.31
                                                            10.91
                                                                     12.42
##
##
                         Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                            8.62 9.66
                                                2.87
                                                       1.04
                                                               4.96
                                                                        2.09
                                                5.98
                                                       3.62
##
     Not like me
                           10.18 7.25
                                                              7.02
                                                                        4.66
```

```
##
     A little like me
                           10.63 11.70
                                               3.57
                                                      6.40
                                                              7.66
                                                                        2.33
##
     Somewhat like me
                           7.40 14.61
                                                      4.67
                                                              5.49
                                                                        2.95
                                               6.13
                            8.82 7.41
##
     Like me
                                               7.19
                                                      5.85
                                                              5.81
                                                                        6.21
     Very much like me
                           10.32 7.30
                                                      4.86
##
                                               4.64
                                                              4.37
                                                                        4.69
##
##
                         Switzerland United Kingdom
##
                                1.83
     Not like me at all
     Not like me
##
                                3.16
                                                7.25
##
     A little like me
                                2.41
                                                7.30
##
     Somewhat like me
                                4.21
                                                5.63
##
     Like me
                                6.31
                                                7.92
                                7.28
##
     Very much like me
                                                8.95
##
   [1] "impenv_r : Important to care for nature and environment"
##
##
                         Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                              34
                                       10
                                               27
                                                        5
                                                               33
                                                                        16
##
     Not like me
                                       29
                                              132
                                                        52
                                                              157
                              66
                                                                      113
##
     A little like me
                             253
                                     158
                                              432
                                                      180
                                                              491
                                                                      274
##
     Somewhat like me
                             757
                                     717
                                                              648
                                                                      856
                                             1200
                                                      667
##
     Like me
                            1636
                                    1698
                                             1638
                                                      1808
                                                             1275
                                                                     2206
##
     Very much like me
                            1732
                                     910
                                             1173
                                                      1198
                                                             1442
                                                                     1697
##
     <NA>
                                       11
                                               65
                                                        13
                                                               34
##
##
                         Ireland Italy Netherlands Norway Poland Slovenia
##
                                     14
                                                 16
                                                        13
     Not like me at all
                              35
                                                                 7
##
     Not like me
                             131
                                     51
                                                 68
                                                        132
                                                                55
                                                                          25
##
     A little like me
                             423
                                    282
                                                163
                                                        381
                                                               187
                                                                         51
##
                             897
                                  1223
                                                730
                                                                         231
     Somewhat like me
                                                        631
                                                               569
##
     Like me
                            1825
                                  1921
                                               1609
                                                       1207
                                                              1390
                                                                       1198
##
     Very much like me
                            1628
                                  1759
                                                745
                                                        563
                                                               928
                                                                        1099
##
     <NA>
                              34
                                   121
                                                 23
                                                         24
                                                                58
                                                                          18
##
##
                         Switzerland United Kingdom
##
     Not like me at all
                                   4
                                  33
##
     Not like me
                                                 134
##
     A little like me
                                 120
                                                 350
##
     Somewhat like me
                                 460
                                                 713
##
     Like me
                                1269
                                                1588
##
     Very much like me
                                1156
                                                1322
##
     <NA>
                                  25
                                                  38
##
##
                         Austria Belgium Czechia Estonia France Germany
##
                                    4.26
                                            11.49
     Not like me at all
                           14.47
                                                     2.13 14.04
                                                                     6.81
##
                            5.60
                                    2.46
                                                           13.33
                                                                     9.59
     Not like me
                                            11.21
                                                      4.41
##
                            6.76
                                    4.22
                                                      4.81
                                                            13.11
     A little like me
                                            11.54
                                                                     7.32
##
                                     6.96
     Somewhat like me
                            7.35
                                            11.65
                                                      6.48
                                                             6.29
                                                                     8.31
                                    7.63
##
     Like me
                            7.35
                                             7.36
                                                      8.12
                                                             5.73
                                                                     9.91
##
     Very much like me
                            9.98
                                     5.24
                                                      6.90
                                                             8.31
                                                                     9.78
                                             6.76
##
##
                         Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                                                      5.53
                                                              2.98
                           14.89 5.96
                                               6.81
                                                                       1.28
     Not like me
                                               5.77 11.21
                                                              4.67
                                                                       2.12
##
                           11.12 4.33
##
     A little like me
                           11.30 7.53
                                               4.35 10.17
                                                              4.99
                                                                       1.36
                                               7.09
##
     Somewhat like me
                            8.71 11.87
                                                     6.13
                                                              5.52
                                                                        2.24
```

```
##
     Like me
                             8.20 8.63
                                                7.23
                                                        5.42
                                                               6.24
                                                                         5.38
##
     Very much like me
                            9.38 10.14
                                                4.29
                                                        3.24
                                                               5.35
                                                                         6.33
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                 1.70
                                                 7.66
##
     Not like me
                                 2.80
                                                11.38
##
     A little like me
                                 3.20
                                                 9.35
     Somewhat like me
                                                 6.92
##
                                 4.47
##
     Like me
                                 5.70
                                                 7.13
                                                 7.62
##
     Very much like me
                                 6.66
   [1] "iphlppl_r : Important to help people and care for others well-being"
##
##
                          Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                               45
                                        2
                                                57
                                                          9
                                                                15
                                                                         10
##
     Not like me
                               66
                                       29
                                               202
                                                        115
                                                               107
                                                                         73
##
     A little like me
                              266
                                       83
                                               783
                                                        384
                                                               464
                                                                        182
##
     Somewhat like me
                                                               778
                              942
                                      669
                                              1616
                                                       1163
                                                                        814
##
     Like me
                             1837
                                     1825
                                              1428
                                                       1699
                                                              1424
                                                                       2496
##
     Very much like me
                             1308
                                      914
                                                                       1586
                                               521
                                                        539
                                                              1257
##
     <NA>
                               45
                                       11
                                                60
                                                         14
                                                                35
                                                                         49
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
                                     27
                                                   3
                                                           3
                                                                  7
     Not like me at all
                               16
                                                                            6
##
     Not like me
                               89
                                     63
                                                  32
                                                          24
                                                                 66
                                                                           21
##
                                    390
                                                  84
                                                                326
     A little like me
                              344
                                                         276
                                                                           46
##
     Somewhat like me
                              768
                                   1765
                                                 640
                                                         550
                                                                814
                                                                          290
##
     Like me
                             2144
                                   1999
                                                1779
                                                        1338
                                                               1399
                                                                         1472
##
     Very much like me
                                   1000
                                                 793
                                                         737
                             1578
                                                                510
                                                                          766
##
     <NA>
                               34
                                    127
                                                  23
                                                          23
                                                                 72
                                                                           24
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                    4
##
     Not like me
                                   21
                                                   39
##
     A little like me
                                   77
                                                  218
##
     Somewhat like me
                                  463
                                                  567
##
     Like me
                                 1452
                                                 1844
##
     Very much like me
                                 1026
                                                 1455
##
     <NA>
                                   24
                                                   35
##
##
                          Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                            21.53
                                     0.96
                                             27.27
                                                                       4.78
                                                      4.31
                                                              7.18
##
     Not like me
                             6.97
                                     3.06
                                             21.33
                                                     12.14
                                                             11.30
                                                                       7.71
     A little like me
                             6.78
                                                       9.79
##
                                     2.12
                                             19.96
                                                             11.83
                                                                       4.64
##
     Somewhat like me
                             7.96
                                     5.65
                                             13.65
                                                       9.82
                                                              6.57
                                                                       6.88
##
     Like me
                             7.61
                                     7.56
                                                       7.04
                                                              5.90
                                              5.92
                                                                      10.34
     Very much like me
                                     6.53
##
                             9.35
                                              3.72
                                                       3.85
                                                              8.98
                                                                      11.34
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
     Not like me at all
##
                             7.66 12.92
                                                1.44
                                                        1.44
                                                               3.35
                                                                         2.87
##
     Not like me
                             9.40 6.65
                                                3.38
                                                        2.53
                                                               6.97
                                                                         2.22
##
                             8.77 9.94
                                                2.14
                                                        7.04
     A little like me
                                                               8.31
                                                                         1.17
##
     Somewhat like me
                             6.49 14.91
                                                5.41
                                                        4.65
                                                               6.88
                                                                         2.45
##
     Like me
                             8.88 8.28
                                                7.37
                                                        5.54
                                                               5.80
                                                                         6.10
##
     Very much like me
                           11.28 7.15
                                                5.67
                                                        5.27
                                                               3.65
                                                                         5.48
```

```
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                 1.91
                                                  2.39
     Not like me
                                 2.22
                                                  4.12
##
##
     A little like me
                                 1.96
                                                  5.56
##
     Somewhat like me
                                 3.91
                                                  4.79
##
     Like me
                                 6.02
                                                  7.64
     Very much like me
                                 7.33
                                                 10.40
##
   [1] "iplylfr_r: Important to be loyal to friends and devote to people close"
##
##
                          Austria Belgium Czechia Estonia France Germany
##
                               26
                                                 24
     Not like me at all
                                         1
                                                         11
                                                                 17
                                                                          10
     Not like me
                                                                          20
##
                               37
                                        13
                                                88
                                                         44
                                                                 44
##
                                        37
                                                                          50
     A little like me
                              179
                                                381
                                                        146
                                                                224
##
     Somewhat like me
                                       313
                                                                         278
                              445
                                               1262
                                                        594
                                                                566
##
     Like me
                             1611
                                      1895
                                               1871
                                                       2218
                                                               1397
                                                                       2204
##
                             2180
                                      1264
                                                979
                                                        897
                                                               1800
                                                                       2598
     Very much like me
##
     <NA>
                               31
                                        10
                                                 62
                                                         13
                                                                 32
                                                                          50
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                               20
                                      21
                                                    3
                                                           1
                                                                   8
                                                                             8
##
     Not like me
                               87
                                      43
                                                   37
                                                          12
                                                                  29
                                                                            58
##
     A little like me
                              341
                                     247
                                                          95
                                                                 167
                                                                            92
                                                  51
##
     Somewhat like me
                              726
                                   1389
                                                  434
                                                         253
                                                                 483
                                                                           366
##
     Like me
                             2196
                                   2282
                                                 1927
                                                        1447
                                                                1514
                                                                          1383
     Very much like me
##
                             1564
                                   1273
                                                  875
                                                        1121
                                                                 932
                                                                           688
##
     <NA>
                               39
                                     116
                                                   27
                                                          22
                                                                  61
                                                                            30
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                     2
##
     Not like me
                                    15
                                                    54
##
     A little like me
                                   27
                                                   212
##
     Somewhat like me
                                  204
                                                   473
##
     Like me
                                 1331
                                                  1912
##
     Very much like me
                                 1461
                                                  1464
##
     <NA>
                                    27
                                                    40
##
##
                          Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                            16.25
                                      0.62
                                             15.00
                                                       6.88
                                                              10.62
                                                                       6.25
##
     Not like me
                                      2.24
                                             15.15
                                                       7.57
                                                               7.57
                                                                       3.44
                             6.37
##
     A little like me
                             7.96
                                      1.65
                                                       6.49
                                                               9.96
                                                                       2.22
                                             16.94
##
     Somewhat like me
                             5.72
                                      4.02
                                             16.21
                                                       7.63
                                                               7.27
                                                                       3.57
                                      7.52
##
     Like me
                             6.40
                                              7.43
                                                       8.81
                                                               5.55
                                                                       8.75
##
     Very much like me
                                      6.62
                            11.42
                                              5.13
                                                       4.70
                                                               9.43
                                                                       13.60
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                            12.50 13.12
                                                 1.88
                                                        0.62
                                                                5.00
                                                                          5.00
##
     Not like me
                                                 6.37
                                                        2.07
                                                                4.99
                                                                          9.98
                            14.97 7.40
##
     A little like me
                            15.16 10.98
                                                 2.27
                                                        4.22
                                                                7.43
                                                                          4.09
##
     Somewhat like me
                             9.32 17.84
                                                 5.57
                                                        3.25
                                                                6.20
                                                                          4.70
##
                             8.72 9.06
                                                 7.65
     Like me
                                                        5.74
                                                                6.01
                                                                          5.49
##
                             8.19 6.67
     Very much like me
                                                 4.58
                                                        5.87
                                                                4.88
                                                                          3.60
##
```

Switzerland United Kingdom

##

```
##
     Not like me at all
                                 1.25
                                                 5.00
##
     Not like me
                                 2.58
                                                 9.29
                                                 9.43
##
     A little like me
                                 1.20
##
     Somewhat like me
                                 2.62
                                                 6.08
##
     Like me
                                 5.28
                                                 7.59
##
                                 7.65
                                                 7.67
     Very much like me
   [1] "ipeqopt_r : Important that people are treated equally and have equal opportunities"
##
##
                          Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                               47
                                         8
                                                53
                                                         51
                                                                 18
                                                                         48
##
     Not like me
                               86
                                        54
                                               212
                                                        329
                                                                 71
                                                                        194
                                                               271
                                                                        240
##
     A little like me
                              296
                                       117
                                               568
                                                        420
##
     Somewhat like me
                              902
                                       699
                                              1362
                                                       1059
                                                               644
                                                                        750
##
     Like me
                             1800
                                      1680
                                              1627
                                                       1627
                                                               1215
                                                                       2340
##
     Very much like me
                             1333
                                       957
                                               751
                                                        422
                                                               1825
                                                                       1581
##
     <NA>
                               45
                                        18
                                                94
                                                         15
                                                                 36
                                                                         57
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
     Not like me at all
##
                               34
                                     31
                                                          12
                                                                  20
                                                  11
                                                                 80
##
     Not like me
                              129
                                    112
                                                   65
                                                         104
                                                                           54
##
     A little like me
                              438
                                    402
                                                  77
                                                         292
                                                                 223
                                                                           48
##
     Somewhat like me
                              854
                                   1727
                                                 501
                                                         437
                                                                 575
                                                                          222
##
     Like me
                             1937
                                                                1425
                                   1834
                                                1871
                                                        1318
                                                                         1325
##
     Very much like me
                             1542
                                                 805
                                                         763
                                                                 809
                                                                          940
                                   1121
##
     <NA>
                               39
                                    144
                                                   24
                                                          25
                                                                  62
                                                                            28
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                   21
##
                                  102
     Not like me
                                                   139
##
     A little like me
                                  178
                                                   326
##
     Somewhat like me
                                  426
                                                  663
##
     Like me
                                 1342
                                                 1661
##
     Very much like me
                                  962
                                                 1304
##
                                                    42
     <NA>
                                   36
##
##
                         Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                            12.05
                                     2.05
                                             13.59
                                                      13.08
                                                               4.62
                                                                      12.31
##
     Not like me
                             4.97
                                     3.12
                                             12.25
                                                      19.01
                                                               4.10
                                                                      11.21
##
     A little like me
                             7.60
                                     3.00
                                             14.58
                                                      10.78
                                                               6.96
                                                                       6.16
##
     Somewhat like me
                                     6.46
                                                       9.79
                                                               5.95
                                                                       6.93
                             8.34
                                             12.59
##
     Like me
                             7.83
                                     7.30
                                              7.07
                                                               5.28
                                                       7.07
                                                                      10.17
     Very much like me
##
                             8.82
                                     6.33
                                              4.97
                                                       2.79
                                                             12.07
                                                                      10.46
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                             8.72 7.95
                                                2.82
                                                        3.08
                                                               5.13
                                                                         2.05
     Not like me
                                                                         3.12
##
                             7.45 6.47
                                                3.76
                                                        6.01
                                                               4.62
##
     A little like me
                            11.24 10.32
                                                1.98
                                                        7.49
                                                               5.72
                                                                         1.23
##
     Somewhat like me
                                                        4.04
                             7.89 15.96
                                                4.63
                                                               5.31
                                                                         2.05
##
     Like me
                             8.42 7.97
                                                8.13
                                                        5.73
                                                               6.20
                                                                         5.76
##
     Very much like me
                            10.20 7.42
                                                5.33
                                                        5.05
                                                               5.35
                                                                         6.22
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                 5.38
                                                 7.18
                                                 8.03
##
     Not like me
                                 5.89
```

```
##
     A little like me
                                 4.57
                                                  8.37
##
     Somewhat like me
                                 3.94
                                                  6.13
##
     Like me
                                 5.83
                                                  7.22
##
     Very much like me
                                 6.36
                                                  8.63
##
   [1] "ipudrst_r : Important to understand different people"
##
##
                          Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                               63
                                         9
                                                96
                                                         15
                                                                 37
                                                                          18
##
     Not like me
                              129
                                        72
                                               296
                                                        137
                                                                142
                                                                         108
##
                                       170
                                                                482
                                                                         223
     A little like me
                              360
                                               815
                                                        343
##
     Somewhat like me
                             1168
                                       852
                                               1628
                                                        956
                                                                823
                                                                         787
##
     Like me
                             1728
                                                       1899
                                                                       2707
                                      1811
                                               1357
                                                               1412
##
     Very much like me
                             1011
                                       602
                                               384
                                                        560
                                                               1150
                                                                       1310
##
     <NA>
                               50
                                        17
                                                91
                                                         13
                                                                 34
                                                                          57
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
                                      37
                                                            4
     Not like me at all
                               33
                                                   11
                                                                  19
                                                                             8
##
     Not like me
                              177
                                     126
                                                  104
                                                          63
                                                                 122
                                                                            81
##
     A little like me
                              530
                                     583
                                                  178
                                                                 382
                                                         319
                                                                           116
##
     Somewhat like me
                              940
                                   1857
                                                  779
                                                         594
                                                                 698
                                                                           375
     Like me
##
                             2166
                                    1818
                                                 1765
                                                        1436
                                                                1427
                                                                          1525
##
     Very much like me
                             1088
                                     770
                                                  489
                                                         512
                                                                 461
                                                                           495
     <NA>
##
                               39
                                     180
                                                          23
                                                   28
                                                                  85
                                                                            25
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                    7
##
     Not like me
                                   55
                                                   126
##
                                  120
                                                   364
     A little like me
##
     Somewhat like me
                                  535
                                                   716
##
     Like me
                                 1550
                                                  1945
##
     Very much like me
                                  768
                                                   944
##
     <NA>
                                   32
                                                    42
##
##
                          Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                            16.45
                                      2.35
                                             25.07
                                                       3.92
                                                               9.66
                                                                       4.70
##
     Not like me
                             7.42
                                      4.14
                                             17.03
                                                       7.88
                                                               8.17
                                                                       6.21
##
     A little like me
                             7.22
                                      3.41
                                             16.35
                                                       6.88
                                                               9.67
                                                                       4.47
##
     Somewhat like me
                             9.19
                                      6.70
                                             12.81
                                                       7.52
                                                               6.48
                                                                       6.19
##
     Like me
                             7.04
                                     7.38
                                              5.53
                                                       7.74
                                                               5.75
                                                                      11.03
##
     Very much like me
                             9.59
                                              3.64
                                                       5.31
                                                             10.91
                                                                      12.42
                                      5.71
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
                                                        1.04
     Not like me at all
                             8.62 9.66
                                                 2.87
                                                                4.96
                                                                          2.09
##
                                                 5.98
                                                        3.62
                                                                7.02
     Not like me
                            10.18 7.25
                                                                          4.66
##
     A little like me
                            10.63 11.70
                                                 3.57
                                                        6.40
                                                                7.66
                                                                          2.33
##
     Somewhat like me
                             7.40 14.61
                                                 6.13
                                                        4.67
                                                                5.49
                                                                          2.95
##
     Like me
                             8.82 7.41
                                                 7.19
                                                        5.85
                                                                5.81
                                                                          6.21
##
                            10.32 7.30
                                                        4.86
     Very much like me
                                                 4.64
                                                                4.37
                                                                          4.69
##
##
                          Switzerland United Kingdom
     Not like me at all
##
                                 1.83
                                                  6.79
     Not like me
##
                                 3.16
                                                  7.25
##
     A little like me
                                 2.41
                                                  7.30
##
     Somewhat like me
                                 4.21
                                                  5.63
```

```
##
     Like me
                                  6.31
                                                  7.92
##
     Very much like me
                                 7.28
                                                  8.95
   [1] "impenv_r : Important to care for nature and environment"
##
##
##
                          Austria Belgium Czechia Estonia France Germany
##
                                        10
     Not like me at all
                               34
                                                 27
                                                          5
                                                                 33
                                                                          16
##
                                        29
                                                132
                                                         52
                                                                157
     Not like me
                               66
                                                                         113
##
     A little like me
                              253
                                       158
                                                432
                                                        180
                                                                491
                                                                         274
##
     Somewhat like me
                              757
                                       717
                                               1200
                                                        667
                                                                648
                                                                         856
##
     Like me
                             1636
                                      1698
                                               1638
                                                       1808
                                                               1275
                                                                        2206
##
     Very much like me
                             1732
                                       910
                                               1173
                                                       1198
                                                               1442
                                                                        1697
##
     <NA>
                               31
                                        11
                                                 65
                                                         13
                                                                 34
                                                                          48
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
                                      14
                                                                   7
     Not like me at all
                               35
                                                   16
                                                          13
##
     Not like me
                              131
                                      51
                                                   68
                                                         132
                                                                  55
                                                                            25
##
     A little like me
                              423
                                     282
                                                  163
                                                         381
                                                                 187
                                                                            51
##
     Somewhat like me
                              897
                                    1223
                                                  730
                                                         631
                                                                 569
                                                                           231
##
     Like me
                             1825
                                    1921
                                                 1609
                                                         1207
                                                                1390
                                                                          1198
##
     Very much like me
                             1628
                                    1759
                                                  745
                                                         563
                                                                 928
                                                                          1099
##
     <NA>
                               34
                                     121
                                                   23
                                                          24
                                                                  58
                                                                            18
##
                          Switzerland United Kingdom
##
##
                                     4
     Not like me at all
                                                    18
##
     Not like me
                                    33
                                                   134
##
     A little like me
                                  120
                                                   350
##
     Somewhat like me
                                  460
                                                   713
                                  1269
##
     Like me
                                                  1588
##
                                  1156
                                                  1322
     Very much like me
##
     <NA>
                                    25
                                                    38
##
##
                          Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                            14.47
                                      4.26
                                             11.49
                                                       2.13
                                                             14.04
                                                                        6.81
##
     Not like me
                             5.60
                                      2.46
                                             11.21
                                                       4.41
                                                              13.33
                                                                        9.59
##
     A little like me
                             6.76
                                      4.22
                                             11.54
                                                       4.81
                                                              13.11
                                                                        7.32
##
     Somewhat like me
                             7.35
                                      6.96
                                                       6.48
                                                               6.29
                                                                        8.31
                                             11.65
##
     Like me
                             7.35
                                      7.63
                                              7.36
                                                       8.12
                                                               5.73
                                                                        9.91
##
     Very much like me
                             9.98
                                      5.24
                                              6.76
                                                       6.90
                                                               8.31
                                                                        9.78
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
                            14.89 5.96
                                                 6.81
                                                        5.53
                                                                2.98
     Not like me at all
##
     Not like me
                            11.12 4.33
                                                 5.77
                                                       11.21
                                                                4.67
                                                                          2.12
                            11.30 7.53
                                                 4.35
                                                       10.17
                                                                4.99
##
     A little like me
                                                                          1.36
##
     Somewhat like me
                             8.71 11.87
                                                 7.09
                                                        6.13
                                                                5.52
                                                                          2.24
##
                             8.20 8.63
     Like me
                                                 7.23
                                                        5.42
                                                                6.24
                                                                          5.38
                                                        3.24
##
     Very much like me
                             9.38 10.14
                                                 4.29
                                                                5.35
                                                                          6.33
##
##
                          Switzerland United Kingdom
     Not like me at all
##
                                 1.70
                                                  7.66
##
     Not like me
                                  2.80
                                                 11.38
##
                                 3.20
                                                  9.35
     A little like me
##
     Somewhat like me
                                 4.47
                                                  6.92
##
     Like me
                                 5.70
                                                  7.13
##
     Very much like me
                                 6.66
                                                  7.62
```

```
#Assign weight and survey stucture for ESS data
ds_filtradaAll %>% group_by(essround,cntry) %>%
  summarise(pesos=round(sum(dweight),0), n=n(), diff=n-pesos) %>%
  summarise(Diff Pesos N=sum(diff))
## # A tibble: 2 x 2
               Diff_Pesos_N
##
     essround
     <labelled>
                        <dbl>
## 1 8
## 2 9
ds_filtradaAll$gndrD <- ifelse(ds_filtradaAll$gndr == 1, 0,</pre>
                                ifelse(ds filtradaAll$gndr == 2, 1,ds filtradaAll$gndr))
var_lab(ds_filtradaAll$gndrD) <- "Gender (Female)"</pre>
use_labels(ds_filtradaAll,table(gndrD,as.character(cntry)))
##
   Gender (Female) Austria Belgium Czechia Estonia France Germany Ireland
##
                 0
                       2054
                               1755
                                        2146
                                                1762
                                                        1866
                                                                2720
                                                                        2407
                                        2521
                                                                2490
                                                                        2566
##
                  1
                       2455
                               1778
                                                2161
                                                        2214
##
   Gender (Female) Italy Netherlands Norway Poland Slovenia Switzerland
##
                   2581
                                 1585
                                         1607
                                                1517
                                                          1208
                                                                      1563
##
                    2790
                                 1769
                                         1344
                                                1675
                                                          1417
                                                                      1504
                  1
##
##
  Gender (Female) United Kingdom
##
                 0
                              1870
##
                  1
                              2293
# use_labels(ds_filtradaAll, table(marsts, as.character(cntry)))
# marstsD <- as.dichotomy(ds_filtradaAll$marsts, prefix="marsts")</pre>
# names(marstsD)
val_lab(ds_filtradaAll$eisced)
##
               Not possible to harmonise into ES-ISCED
##
##
                ES-ISCED I , less than lower secondary
##
##
                           ES-ISCED II, lower secondary
##
##
             ES-ISCED IIIb, lower tier upper secondary
##
##
             ES-ISCED IIIa, upper tier upper secondary
##
##
          ES-ISCED IV, advanced vocational, sub-degree
##
##
       ES-ISCED V1, lower tertiary education, BA level
##
  ES-ISCED V2, higher tertiary education, >= MA level
##
##
                                                   Other
##
                                                      55
##
                                                 Refusal
##
                                                      77
```

```
##
                                              Don't know
##
                                                      88
##
                                               No answer
##
                                                      99
ds_filtradaAll$eiscedT <- ifelse(ds_filtradaAll$eisced %in% c(1,2,3) , 1,
                               ifelse(ds_filtradaAll$eisced %in% c(4,5),2,
                                      ifelse(ds_filtradaAll$eisced %in% c(6,7), 3,NA)))
val lab(ds filtradaAll$eiscedT) = num lab("
            1 Less than Upper secondary
            2 Upper secondary or vocational
            3 Bachelor or higher
")
var_lab(ds_filtradaAll$eiscedT) <- var_lab(ds_filtradaAll$eisced)</pre>
use_labels(ds_filtradaAll,table(eiscedT,as.character(cntry)))
##
## Highest level of education, ES - ISCED eiscedT Austria Belgium Czechia
                    Less than Upper secondary
                                                       3097
                                                                1192
                                                                        1952
                    Upper secondary or vocational
                                                        807
                                                                1086
                                                                        2022
##
                    Bachelor or higher
##
                                                        594
                                                                1233
                                                                         688
##
## Highest level of education, ES - ISCED eiscedT Estonia France Germany
                    Less than Upper secondary
                                                        805
                                                               2006
                                                                       2551
##
                                                               1292
##
                    Upper secondary or vocational
                                                       1987
                                                                       1308
                    Bachelor or higher
                                                       1129
                                                               776
                                                                       1324
##
##
## Highest level of education, ES - ISCED eiscedT Ireland Italy Netherlands
                    Less than Upper secondary
##
                                                       1750 2812
                                                                          1823
##
                    Upper secondary or vocational
                                                       1886
                                                             1832
                                                                           457
##
                    Bachelor or higher
                                                       1311
                                                              677
                                                                          1053
##
  Highest level of education, ES - ISCED eiscedT Norway Poland Slovenia
##
##
                    Less than Upper secondary
                                                      1040
                                                              1628
                                                                       1034
##
                    Upper secondary or vocational
                                                       708
                                                              825
                                                                       1061
                    Bachelor or higher
                                                      1189
                                                               726
##
                                                                        522
##
## Highest level of education, ES - ISCED eiscedT Switzerland United Kingdom
##
                    Less than Upper secondary
                                                           1687
                                                                           1605
##
                    Upper secondary or vocational
                                                            744
                                                                           1277
                    Bachelor or higher
                                                            624
                                                                           1172
eiscedD <- as.dichotomy(ds_filtradaAll$eiscedT, prefix="eisced")</pre>
names(eiscedD)
## [1] "eisced1" "eisced2" "eisced3"
val_lab(ds_filtradaAll$domicil)
##
                          A big city Suburbs or outskirts of big city
##
                                                       Country village
##
                 Town or small city
##
                                                                      4
##
        Farm or home in countryside
                                                                Refusal
##
                                   5
##
                          Don't know
                                                             No answer
```

```
##
                                   8
ds_filtradaAll$domicilT <- ifelse(ds_filtradaAll$domicil %in% c(4,5) , 1,
                                   ifelse(ds_filtradaAll$domicil %in% c(3),2,
                                           ifelse(ds_filtradaAll$domicil %in% c(2),3,
                                                  ifelse(ds_filtradaAll$domicil %in% c(1), 4,NA))))
val_lab(ds_filtradaAll$domicilT) <- num_lab("</pre>
             1 Countryside
             2 Town or small city
             3 Suburbs or outskirts of big city
             4 A big city
")
var_lab(ds_filtradaAll$domicilT) <- var_lab(ds_filtradaAll$domicil)</pre>
use_labels(ds_filtradaAll,table(domicilT,as.character(cntry)))
##
## Domicile, respondent's description domicilT Austria Belgium Czechia
              Countryside
                                                    2054
                                                             1790
                                                                     1436
              Town or small city
                                                    1085
                                                              871
                                                                     1510
##
              Suburbs or outskirts of big city
##
                                                     358
                                                              310
                                                                      179
##
              A big city
                                                    1012
                                                              562
                                                                     1542
##
## Domicile, respondent's description domicilT Estonia France Germany Ireland
##
              Countryside
                                                           1444
                                                                    1719
                                                    1127
              Town or small city
                                                            1441
                                                                    1925
                                                                            1444
##
                                                    1246
##
              Suburbs or outskirts of big city
                                                     369
                                                            512
                                                                     778
                                                                            1016
##
              A big city
                                                    1180
                                                             682
                                                                     787
                                                                             428
##
## Domicile, respondent's description domicilT Italy Netherlands Norway
##
              Countryside
                                                               1530
                                                                      1085
                                                  2529
##
              Town or small city
                                                  1880
                                                                879
                                                                       915
              Suburbs or outskirts of big city
                                                                312
                                                                       494
##
                                                   322
##
                                                   628
                                                                633
                                                                       452
              A big city
##
## Domicile, respondent's description domicilT Poland Slovenia Switzerland
##
              Countryside
                                                   1426
                                                             1441
                                                                         1714
                                                              573
                                                                          851
##
              Town or small city
                                                   1021
##
              Suburbs or outskirts of big city
                                                     85
                                                              289
                                                                          243
                                                                          259
##
              A big city
                                                    655
                                                              318
##
## Domicile, respondent's description domicilT United Kingdom
##
              Countryside
                                                            1076
##
              Town or small city
                                                            1893
##
              Suburbs or outskirts of big city
                                                             817
              A big city
domicilD <- as.dichotomy(ds_filtradaAll$domicilT, prefix="domicil")</pre>
names(domicilD)
## [1] "domicil1" "domicil2" "domicil3" "domicil4"
# use labels(ds filtradaAll, table(chldhhe, as.character(cntry)))
# ds_filtradaAll$chldhheD <- ifelse(ds_filtradaAll$chldhhe == 2, 0, ds_filtradaAll$chldhhe)
#
```

use_labels(ds_filtradaAll, table(lvgptnea, as.character(cntry)))

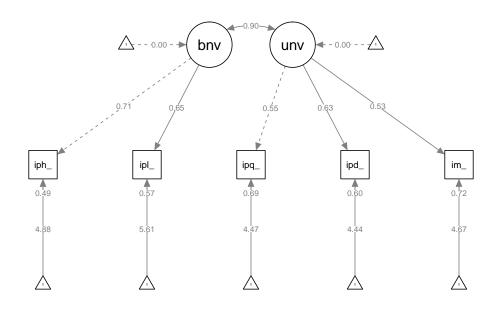
```
# ds_filtradaAll$lvgptneaD <- ifelse(ds_filtradaAll$lvgptnea == 2, 0, ds_filtradaAll$lvgptnea)
ds_filtradaAll <- cbind(ds_filtradaAll, eiscedD, domicilD)#, marstsD
ds_filtradaAll <- ds_filtradaAll[,!colnames(ds_filtradaAll) %in% c("eisced55")]</pre>
```

Model CFA

```
model1<-'
achie =~ ipshabt + ipsuces
benev =~ iphlppl + iplylfr
confo =~ ipfrule + ipbhprp
hedon =~ ipgdtim + impfun
power =~ imprich + iprspot
secur =~ impsafe + ipstrgv
selfd =~ ipcrtiv + impfree
stimu =~ impdiff + ipadvnt
tradi =~ ipmodst + imptrad
unive =~ ipeqopt + ipudrst +impenv'
for (r in c(8,9)) {
  ds_filtrada <- ds_filtradaAll %>% filter(essround == r)
  survey.design <- svydesign(ids=~idno, prob=~dweight, data=ds_filtrada)</pre>
  lavaan.fit1 <- lavaan(model1, data=ds_filtrada, auto.fix.first=TRUE,</pre>
                       auto.var=TRUE, int.ov.free=TRUE,
                       auto.cov.lv.x=TRUE, estimator="MLM",
                       cluster = "cntry", meanstructure=TRUE)
  survey.fit1 <- lavaan.survey(lavaan.fit=lavaan.fit1,survey.design=survey.design)</pre>
  print(paste("ESS round: ", r))
  print(fitMeasures(survey.fit1, c("cfi", "rmsea", "srmr")))
  print(modindices(survey.fit1,sort=T)[1:10,])
}
## [1] "ESS round: 8"
   cfi rmsea srmr
## 0.902 0.058 0.049
##
        lhs op
                                    epc sepc.lv sepc.all sepc.nox
                   rhs
                              шi
## 173 confo =~ imprich 2635.432 -0.869 -0.680
                                                -0.527
                                                           -0.527
## 289 tradi =~ imprich 2510.648 -0.966 -0.522
                                                -0.405
                                                          -0.405
## 174 confo =~ iprspot 2510.041 0.951
                                         0.743
                                                   0.550
                                                            0.550
## 290 tradi =~ iprspot 2442.709 1.065
                                         0.575
                                                  0.426
                                                            0.426
## 232 secur =~ imprich 1908.016 -0.679 -0.562
                                                -0.436
                                                          -0.436
## 314 unive =~ impdiff 1850.133 0.740
                                         0.426
                                                  0.319
                                                           0.319
## 315 unive =~ ipadvnt 1832.963 -0.846 -0.487
                                                -0.343
                                                          -0.343
## 233 secur =~ iprspot 1822.581 0.742
                                        0.614
                                                  0.454
                                                            0.454
## 256 selfd =~ ipadvnt 1790.034 -1.182 -0.811
                                                  -0.571
                                                           -0.571
## 255 selfd =~ impdiff 1763.892 1.020
                                                           0.524
                                        0.700
                                                   0.524
## [1] "ESS round: 9"
##
    cfi rmsea srmr
## 0.900 0.058 0.048
        lhs op
                   rhs
                             mi
                                    epc sepc.lv sepc.all sepc.nox
## 289 tradi =~ imprich 2455.685 -0.871 -0.468 -0.384
```

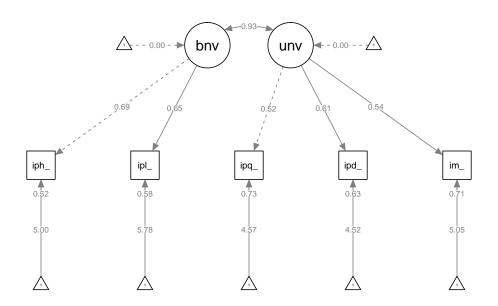
```
## 173 confo =~ imprich 2411.447 -0.834 -0.589
                                                  -0.484
                                                           -0.484
## 290 tradi =~ iprspot 2247.085 1.023
                                         0.549
                                                   0.402
                                                            0.402
## 174 confo =~ iprspot 2224.435 0.983
                                          0.694
                                                   0.508
                                                            0.508
## 232 secur =~ imprich 1779.921 -0.623 -0.499
                                                 -0.410
                                                          -0.410
## 233 secur =~ iprspot 1763.434 0.752
                                         0.602
                                                   0.441
                                                            0.441
## 314 unive =~ impdiff 1356.475 0.691
                                         0.375
                                                   0.280
                                                            0.280
## 154 benev =~ imprich 1353.931 -0.550 -0.368
                                                 -0.303
                                                          -0.303
## 155 benev =~ iprspot 1348.768 0.671
                                          0.449
                                                  0.329
                                                            0.329
## 315 unive =~ ipadvnt 1305.687 -0.781 -0.424
                                                  -0.297
                                                           -0.297
model3<-'
benev =~ iphlppl_r + iplylfr_r
unive =~ ipeqopt_r + ipudrst_r +impenv_r
benev ~~ unive
for (r in c(8,9)) {
  ds_filtrada <- ds_filtradaAll %>% filter(essround == r)
  survey.design <- svydesign(ids=~idno, prob=~dweight, data=ds_filtrada)</pre>
  lavaan.fit3 <- lavaan(model3, data=ds_filtrada, auto.fix.first=TRUE,</pre>
                       auto.var=TRUE, int.ov.free=TRUE,
                       auto.cov.lv.x=TRUE, estimator="MLM",
                       cluster = "cntry", meanstructure=TRUE)
  survey.fit3 <- lavaan.survey(lavaan.fit=lavaan.fit3,survey.design=survey.design)</pre>
  assign(paste0("survey.fit3r",r),survey.fit3)
  print(paste("ESS round: ", r))
  print(fitMeasures(survey.fit3, c("cfi", "rmsea", "srmr")))
  print(modindices(survey.fit3,sort=T)[1:10,])
  cov <- round(cov(ds_filtrada[,items], use="complete.obs"),3)</pre>
  print(lowerMat(cov, digits=3))
  print(round(colMeans(ds_filtrada[,items], na.rm = TRUE),3))
  print(fitted(survey.fit3))
  invisible(semPaths(survey.fit3, "model", "stand", style = "lisrel", rainbowStart = 0.8))
}
## [1] "ESS round: 8"
     cfi rmsea srmr
## 0.990 0.047 0.014
           lhs op
                         rhs
                                        epc sepc.lv sepc.all sepc.nox
                                  mi
## 32 iplylfr_r ~~ impenv_r 166.589 0.065
                                              0.065
                                                       0.109
                                                                0.109
         benev =~ ipeqopt_r 130.387 -0.830 -0.583
                                                      -0.543
                                                               -0.543
## 35 ipudrst_r ~~ impenv_r 130.387 -0.075 -0.075
                                                      -0.106
                                                             -0.106
         benev =~ impenv_r 91.091 0.634
## 23
                                              0.445
                                                       0.431
                                                                0.431
## 33 ipeqopt_r ~~ ipudrst_r 91.091 0.068
                                              0.068
                                                       0.094
                                                                0.094
## 30 iplylfr_r ~~ ipeqopt_r 64.763 -0.043 -0.043
                                                      -0.070
                                                              -0.070
## 28 iphlppl_r ~~ ipudrst_r 29.456 0.034
                                              0.034
                                                      0.060
                                                              0.060
## 31 iplylfr_r ~~ ipudrst_r 17.367 -0.023 -0.023
                                                      -0.041
                                                               -0.041
## 29 iphlppl_r ~~ impenv_r 12.375 -0.020 -0.020
                                                      -0.033
                                                               -0.033
## 27 iphlppl_r ~~ ipeqopt_r
                              5.289 -0.014 -0.014
                                                      -0.022
                                                               -0.022
##
             iphlp_ iplyl_ ipqpt_ ipdrs_ impnv_
## iphlppl_r 0.944
## iplylfr_r 0.401 0.791
## ipeqopt_r 0.354 0.276 1.124
```

```
## ipudrst_r 0.409 0.329 0.398 1.069
## impenv_r 0.332 0.318 0.321 0.318 1.052
## [1] 0.401 0.354 0.409 0.332 0.276 0.329 0.318 0.398 0.321 0.318
## iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r
##
      4.813
                5.062
                         4.806
                                   4.645
## $cov
            iphlp_ iplyl_ ipqpt_ ipdrs_ impnv_
## iphlppl_r 0.969
## iplylfr_r 0.413 0.814
## ipeqopt_r 0.375 0.314 1.154
## ipudrst_r 0.415 0.347 0.390 1.091
## impenv_r 0.345 0.289 0.324 0.358 1.069
## $mean
## iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r
##
      4.808
                5.062
                          4.797
                                   4.642
                                             4.830
```



```
## [1] "ESS round: 9"
    cfi rmsea srmr
## 0.985 0.058 0.017
           lhs op
                                      epc sepc.lv sepc.all sepc.nox
                        rhs
                                mi
                                                              0.166
## 32 iplylfr_r ~~ impenv_r 343.794 0.093 0.093
                                                     0.166
## 33 ipeqopt_r ~~ ipudrst_r 135.389 0.079
                                            0.079
                                                     0.107
                                                              0.107
         benev =~ impenv_r 135.388 1.202
                                          0.807
                                                    0.815
                                                              0.815
## 30 iplylfr_r ~~ ipeqopt_r 94.716 -0.051 -0.051
                                                    -0.085
                                                             -0.085
## 35 ipudrst_r ~~ impenv_r 86.516 -0.061 -0.061
                                                    -0.089
                                                            -0.089
## 21
         benev =~ ipeqopt_r 86.515 -0.983 -0.660
                                                    -0.625
                                                            -0.625
```

```
## 31 iplylfr_r ~~ ipudrst_r 72.357 -0.047 -0.047
                                                   -0.086
                                                            -0.086
## 29 iphlppl_r ~~ impenv_r 58.934 -0.043 -0.043
                                                   -0.074
                                                           -0.074
## 28 iphlppl_r ~~ ipudrst_r 40.168 0.040 0.040
                                                   0.069
                                                             0.069
         benev =~ ipudrst_r 5.674 -0.304 -0.204
                                                            -0.198
                                                   -0.198
            iphlp_ iplyl_ ipqpt_ ipdrs_ impnv_
## iphlppl_r 0.917
## iplylfr_r 0.373 0.763
## ipeqopt_r 0.337 0.257 1.100
## ipudrst_r 0.389 0.306 0.366 1.044
## impenv_r 0.315 0.321 0.280 0.305 0.974
## [1] 0.373 0.337 0.389 0.315 0.257 0.306 0.321 0.366 0.280 0.305
## iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r
      4.847
               5.099
                         4.821
                                   4.667
## $cov
##
            iphlp_ iplyl_ ipqpt_ ipdrs_ impnv_
## iphlppl_r 0.938
## iplylfr_r 0.386 0.781
## ipeqopt_r 0.344 0.294 1.116
## ipudrst_r 0.392 0.335 0.347 1.065
## impenv_r 0.334 0.285 0.295 0.337 0.981
##
## $mean
## iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r
      4.848
               5.105
                         4.826
                                 4.666
```



```
for (r in c(8,9)) {
  ds_filtrada <- ds_filtradaAll %>% filter(essround == r)
```

```
survey.design <- svydesign(ids=~idno, prob=~dweight, data=ds_filtrada)</pre>
# 1. CONFIGURAL EQUIVALENCE
## Add the "meanstructure" argument to add means/intercepts
lavaan.conffit3 <- lavaan(model3, data=ds_filtrada,</pre>
                          auto.fix.first=TRUE, #factor loading of first indicator set to 1
                          int.ov.free=TRUE,
                                              #intercepts not fixed to O
                          meanstructure=TRUE, #the means of the observed variables enter the model,
                                               #residual variances and variances of exogeneous laten
                          auto.var=TRUE,
                          auto.cov.lv.x=TRUE, #covariances of exogeneous latent variables are inclu
                          estimator="MLM",
                          group = "cntry",
                          group.label = countries
                          #qroup.equal = ... #vector for multigroup analysis specify the pattern o
survey.conffit3 <- lavaan.survey(lavaan.fit=lavaan.conffit3,survey.design=survey.design)</pre>
assign(paste0("survey.conffit3r",r),survey.conffit3)
# 2. METRIC EQUIVALENCE: set the factor loadings equal across groups
lavaan.metrfit3 <- lavaan(model3, data=ds_filtrada,</pre>
                        auto.fix.first=TRUE, #factor loading of first indicator set to 1
                        int.ov.free=TRUE,
                                              #intercepts not fixed to 0
                        meanstructure=TRUE, #the means of the observed variables enter the model, n
                        auto.var=TRUE,
                                            #residual variances and variances of exogeneous latent
                        auto.cov.lv.x=TRUE, #covariances of exogeneous latent variables are include
                        estimator="MLM",
                        group = "cntry",
                        group.label = countries,
                        group.equal=c("loadings") #vector for multigroup analysis specify the pattern
survey.metrfit3 <- lavaan.survey(lavaan.fit=lavaan.metrfit3,survey.design=survey.design)</pre>
# 3. SCALAR EQUIVALENCE: set the factor loadings and the intercepts equal across groups
lavaan.scalfit3 <- lavaan(model3, data=ds_filtrada,</pre>
                        auto.fix.first=TRUE, #factor loading of first indicator set to 1
                        int.ov.free=TRUE,
                                            #intercepts not fixed to 0
                        meanstructure=TRUE, #the means of the observed variables enter the model, n
                                            #residual variances and variances of exogeneous latent
                        auto.var=TRUE,
                        auto.cov.lv.x=TRUE, #covariances of exogeneous latent variables are include
                        estimator="MLM",
                        group = "cntry",
                        group.label = countries,
                        group.equal=c("loadings","intercepts"))
survey.scalfit3 <- lavaan.survey(lavaan.fit=lavaan.scalfit3,survey.design=survey.design)</pre>
# 4. check whether factor variances are equal across groups
lavaan.varianfit3 <- lavaan(model3, data=ds_filtrada,</pre>
                        auto.fix.first=TRUE, #factor loading of first indicator set to 1
                        int.ov.free=TRUE,
                                              #intercepts not fixed to 0
                        meanstructure=TRUE, #the means of the observed variables enter the model, n
                        auto.var=TRUE,
                                            #residual variances and variances of exogeneous latent
```

```
auto.cov.lv.x=TRUE, #covariances of exogeneous latent variables are include
                         estimator="MLM",
                         group = "cntry",
                         group.label = countries,
                         group.equal=c("loadings","intercepts","lv.variances"))
 survey.varianfit3 <- lavaan.survey(lavaan.fit=lavaan.varianfit3,survey.design=survey.design)</pre>
 invar <- data.frame(round(rbind(Configural = fitMeasures(survey.conffit3, c("cfi", "rmsea", "srmr")),</pre>
 Metric = fitMeasures(survey.metrfit3, c("cfi", "rmsea", "srmr")),
 Scalar = fitMeasures(survey.scalfit3, c("cfi", "rmsea", "srmr")),
 Strict = fitMeasures(survey.varianfit3, c("cfi", "rmsea", "srmr"))),3))
 dif <- invar %>%
     mutate_all(funs(. - lag(.)))
 print(paste("ESS round: ", r))
 print(cbind(invar,dif))
}
## [1] "ESS round: 8"
               cfi rmsea srmr
                                  cfi rmsea srmr
## Configural 0.982 0.062 0.018
                                NΑ
                                          NΑ
## Metric 0.974 0.057 0.029 -0.008 -0.005 0.011
## Scalar
             0.886 0.100 0.059 -0.088 0.043 0.030
## Strict
             0.852 0.105 0.106 -0.034 0.005 0.047
## [1] "ESS round: 9"
               cfi rmsea srmr
                                 cfi rmsea srmr
## Configural 0.979 0.066 0.018
                                  NA
## Metric 0.968 0.063 0.032 -0.011 -0.003 0.014
## Scalar 0.870 0.107 0.063 -0.098 0.044 0.031
          0.838 0.109 0.103 -0.032 0.002 0.040
## Strict
```

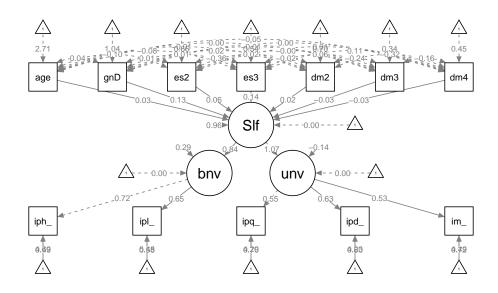
Model SEM

```
# semmodel <-'
# benev =- iphlppl_r + iplylfr_r
# unive =- ipeqopt_r + ipudrst_r + impenv_r
# unive ~- benev
# unive ~- agea + gndrD + eisced1 + eisced2 + eisced3 + eisced4 + eisced5 + eisced6 + domicil2 + domici
# '

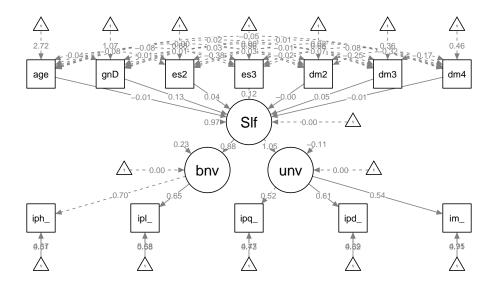
semmodel <-'
benev =- iphlppl_r + iplylfr_r
unive =- ipeqopt_r + ipudrst_r + impenv_r
Self =- unive + benev
Self ~- agea + gndrD + eisced2 + eisced3 + domicil2 + domicil3 + domicil4
'

for (r in c(8,9)) {
    ds_filtrada2 <- ds_filtradaAll %>% filter(essround == r)
    survey.design2 <- svydesign(ids=-idno, prob=-dweight, data=ds_filtrada2)
    lavaan.semfit <- lavaan(semmodel, data=ds_filtrada2,</pre>
```

```
auto.fix.first=TRUE, #factor loading of first indicator set to 1
                         int.ov.free=TRUE,
                                               #intercepts not fixed to 0
                         meanstructure=TRUE,
                                              #the means of the observed variables enter the model, n
                         auto.var=TRUE,
                                              #residual variances and variances of exogeneous latent
                         auto.cov.lv.x=TRUE,
                                              #covariances of exogeneous latent variables are include
                         estimator="MLM",
                         cluster = "cntry")
 survey.semfit <- lavaan.survey(lavaan.fit=lavaan.semfit,survey.design=survey.design2)</pre>
 assign(paste0("survey.semfit",r),survey.semfit)
 print(paste("ESS round: ", r))
 print(fitMeasures(survey.semfit, c("cfi", "rmsea", "srmr")))
 print(modindices(survey.semfit,sort=T)[1:10,])
 invisible(semPaths(survey.semfit,"model","stand", style = "lisrel"))
}
## [1] "ESS round: 8"
   cfi rmsea srmr
## 0.934 0.046 0.021
                                       epc sepc.lv sepc.all sepc.nox
##
           lhs op
                        rhs
## 82 iplylfr_r ~~ impenv_r 177.131 0.067
                                            0.067
                                                     0.111
                                                              0.111
## 85 ipudrst_r ~~ impenv_r 142.662 -0.079 -0.079
                                                             -0.111
                                                     -0.111
## 73
          Self =~ ipeqopt_r 142.660 1.605
                                             1.008
                                                     0.941
                                                              0.941
## 83 ipeqopt_r ~~ ipudrst_r 93.195 0.068
                                           0.068
                                                     0.094
                                                              0.094
## 75
          Self =~ impenv_r 93.189 -1.189 -0.747
                                                    -0.723
                                                            -0.723
         benev =~ impenv_r 81.100 0.570
                                           0.402
## 68
                                                     0.389
                                                             0.389
## 66
         benev =~ ipeqopt_r 73.928 -0.587 -0.415
                                                             -0.387
                                                    -0.387
## 70
         unive =~ iplylfr_r 48.066 -2.602 -1.532
                                                    -1.702
                                                             -1.702
         unive =~ iphlppl_r 48.063 3.144
## 69
                                             1.852
                                                    1.882
                                                             1.882
## 80 iplylfr_r ~~ ipeqopt_r 45.105 -0.035 -0.035
                                                    -0.058
                                                             -0.058
```



```
## [1] "ESS round: 9"
     cfi rmsea srmr
## 0.938 0.043 0.019
           lhs op
                                  {\tt mi}
                                        epc sepc.lv sepc.all sepc.nox
                         rhs
## 82 iplylfr_r ~~ impenv_r 360.764 0.094
                                              0.094
                                                       0.168
                                                                0.168
## 68
                    impenv_r 156.189 1.120
                                              0.756
                                                       0.765
                                                                0.765
          benev =~
           Self =~ impenv_r 121.568 -1.964
                                             -1.134
                                                      -1.147
                                                               -1.147
## 83 ipeqopt_r ~~ ipudrst_r 121.568 0.075
                                              0.075
                                                       0.102
                                                                0.102
## 85 ipudrst_r ~~ impenv_r 89.875 -0.062
                                             -0.062
                                                      -0.091
                                                               -0.091
           Self =~ ipeqopt_r 89.870 1.742
                                              1.006
                                                       0.956
                                                                0.956
## 81 iplylfr_r ~~ ipudrst_r 79.414 -0.049
                                             -0.049
                                                      -0.090
                                                               -0.090
## 80 iplylfr_r ~~ ipeqopt_r 70.882 -0.044
                                             -0.044
                                                      -0.073
                                                               -0.073
## 79 iphlppl_r ~~ impenv_r 51.277 -0.040
                                             -0.040
                                                      -0.068
                                                               -0.068
## 66
         benev =~ ipeqopt_r 42.253 -0.605
                                            -0.408
                                                      -0.388
                                                               -0.388
```



```
for (r in c(8,9)) {
  ds_filtrada2 <- ds_filtradaAll %>% filter(essround == r)
  survey.design2 <- svydesign(ids=~idno, prob=~dweight, data=ds_filtrada2)</pre>
  # 1. CONFIGURAL EQUIVALENCE
  ## Add the "meanstructure" argument to add means/intercepts
  lavaan.semconffit3 <- lavaan(semmodel, data=ds_filtrada2,</pre>
                            auto.fix.first=TRUE, #factor loading of first indicator set to 1
                            int.ov.free=TRUE,
                                                   #intercepts not fixed to 0
                            meanstructure=TRUE, #the means of the observed variables enter the model,
                            auto.var=TRUE,
                                                   #residual variances and variances of exogeneous laten
                            auto.cov.lv.x=TRUE,
                                                   #covariances of exogeneous latent variables are inclu
                            estimator="MLM",
                            group = "cntry",
                            group.label = countries
                             #group.equal = ...
                                                  #vector for multigroup analysis specify the pattern o
  survey.semconffit3 <- lavaan.survey(lavaan.fit=lavaan.semconffit3,survey.design=survey.design2)</pre>
  assign(paste0("survey.semconffit3r",r),survey.semconffit3)
  # 2. METRIC EQUIVALENCE: set the factor loadings equal across groups
  lavaan.semmetrfit3 <- lavaan(semmodel, data=ds_filtrada2,</pre>
                          auto.fix.first=TRUE, #factor loading of first indicator set to 1
                                                 #intercepts not fixed to 0
                          int.ov.free=TRUE,
                          meanstructure=TRUE,
                                                 #the means of the observed variables enter the model, n
                          auto.var=TRUE,
                                                 #residual variances and variances of exogeneous latent
```

```
auto.cov.lv.x=TRUE, #covariances of exogeneous latent variables are include
                          estimator="MLM",
                          group = "cntry",
                          group.label = countries,
                          group.equal=c("loadings") #vector for multigroup analysis specify the pattern
  survey.semmetrfit3 <- lavaan.survey(lavaan.fit=lavaan.semmetrfit3,survey.design=survey.design2)</pre>
  # 3. SCALAR EQUIVALENCE: set the factor loadings and the intercepts equal across groups
  lavaan.semscalfit3 <- lavaan(semmodel, data=ds_filtrada2,</pre>
                          auto.fix.first=TRUE, #factor loading of first indicator set to 1
                                                #intercepts not fixed to 0
                          int.ov.free=TRUE,
                          meanstructure=TRUE,
                                                #the means of the observed variables enter the model, n
                                                #residual variances and variances of exogeneous latent
                          auto.var=TRUE,
                          auto.cov.lv.x=TRUE, #covariances of exogeneous latent variables are include
                          estimator="MLM",
                          group = "cntry",
                          group.label = countries,
                          group.equal=c("loadings","intercepts"))
  survey.semscalfit3 <- lavaan.survey(lavaan.fit=lavaan.semscalfit3,survey.design=survey.design2)</pre>
  # 4. check whether factor variances are equal across groups
  lavaan.semvarianfit3 <- lavaan(semmodel, data=ds_filtrada2,</pre>
                          auto.fix.first=TRUE, #factor loading of first indicator set to 1
                          int.ov.free=TRUE,
                                                #intercepts not fixed to 0
                          meanstructure=TRUE, #the means of the observed variables enter the model, n
                          auto.var=TRUE,
                                                #residual variances and variances of exogeneous latent
                          auto.cov.lv.x=TRUE,
                                                #covariances of exogeneous latent variables are include
                          estimator="MLM",
                          group = "cntry",
                          group.label = countries,
                          group.equal=c("loadings","intercepts","lv.variances"))
  survey.semvarianfit3 <- lavaan.survey(lavaan.fit=lavaan.semvarianfit3,survey.design=survey.design2)</pre>
  seminvar <- data.frame(round(rbind(Configural = fitMeasures(survey.semconffit3, c("cfi", "rmsea", "sr</pre>
                                  Metric = fitMeasures(survey.semmetrfit3, c("cfi", "rmsea", "srmr")),
                                  Scalar = fitMeasures(survey.semscalfit3, c("cfi", "rmsea", "srmr")),
                                  Strict = fitMeasures(survey.semvarianfit3, c("cfi", "rmsea", "srmr")
  semdif <- seminvar %>%
     mutate_all(funs(. - lag(.)))
  print(paste("ESS round: ", r))
  print(cbind(seminvar,semdif))
## [1] "ESS round: 8"
                cfi rmsea srmr
                                   cfi rmsea srmr
## Configural 0.900 0.056 0.029
                                    NA
                                          NA
           0.888 0.056 0.031 -0.012 0.000 0.002
## Metric
## Scalar
              0.812 0.071 0.040 -0.076 0.015 0.009
              0.775 0.074 0.061 -0.037 0.003 0.021
## Strict
## [1] "ESS round: 9"
```

```
cfi rmsea srmr
                                    cfi rmsea srmr
## Configural 0.917 0.050 0.025
                                    NΑ
                                           NΑ
           0.905 0.051 0.029 -0.012 0.001 0.004
## Metric
              0.816 0.068 0.039 -0.089 0.017 0.010
## Scalar
## Strict
              0.770 0.074 0.062 -0.046 0.006 0.023
cntrylabels <- num lab("</pre>
 1 Austria
 2 Belgium
 3 Czechia
 4 Estonia
 5 France
 6 Germany
 7 Ireland
 8 Italy
 9 Netherlands
 10
       Norway
  11
        Poland
  12
        Slovenia
 13
       Switzerland
  14
       United Kingdom"
sum1 <-full_join(parameterEstimates(survey.fit3r8),</pre>
                 parameterEstimates(survey.fit3r9),
                 by=c("lhs", "op", "rhs"))
sum2 <-full_join(parameterEstimates(survey.conffit3r8),</pre>
                 parameterEstimates(survey.conffit3r9),
                 by=c("lhs", "op", "rhs", "block", "group"))
sum2$block <- as.character(sum2$block)</pre>
sum3 <-full_join(parameterEstimates(survey.semfit8),</pre>
                 parameterEstimates(survey.semfit9),
                 by=c("lhs", "op", "rhs"))
sum4 <-full_join(parameterEstimates(survey.semconffit3r8),</pre>
                 parameterEstimates(survey.semconffit3r9),
                 by=c("lhs", "op", "rhs", "block", "group"))
sum4 <- sum4 %>% mutate(est.x = ifelse(pvalue.x > 0.05, NA, round(est.x,3)),
                         est.x = ifelse(rhs == "agea", est.x*10, est.x),
                         est.y = ifelse(pvalue.y > 0.05, NA, round(est.y,3)),
                         est.y = ifelse(rhs == "agea", est.y*10, est.y),
                         rhs1 = ifelse(rhs == "gndrD", "Gender (Female / Male)",
                                        ifelse(rhs == "agea", "Age (10 years increment)",
                                               ifelse(rhs == "eisced2", "Highest level of education, (Up)
                                                       ifelse(rhs == "eisced3", "Highest level of educati
                                                              ifelse(rhs == "domicil2", "Domicile (Town or
                                                                     ifelse(rhs == "domicil3", "Domicile
                                                                             ifelse(rhs == "domicil4", "Don
val_lab(sum4$block) <- cntrylabels</pre>
sum4$block <- as.character(sum4$block)</pre>
dir <- "G:/My Drive/Master in Statistics/Structural equations/Paper/"</pre>
write.table(sum1,paste0(dir,"Parametersfit.csv"), sep = ",", row.names = FALSE)
write.table(sum2,paste0(dir,"ParametersConffit.csv"), sep = ",", row.names = FALSE)
```

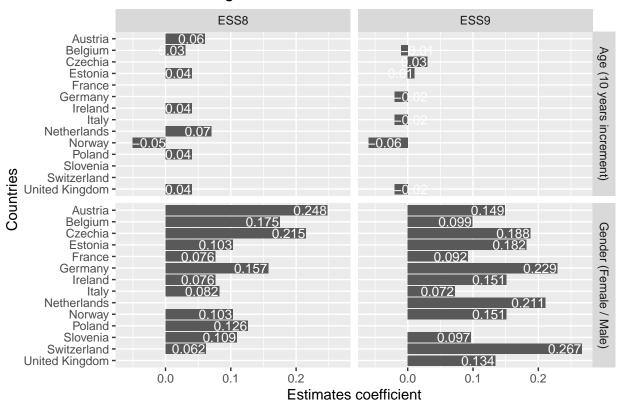
```
write.table(sum3,paste0(dir, "ParametersSemfit.csv"), sep = ",", row.names = FALSE)
write.table(sum4,paste0(dir, "ParametersSemConffit.csv"), sep = ",", row.names = FALSE)
```

Results

```
coef<-rbind(cbind(ESS="ESS8",parameterEstimates(survey.semconffit3r8)),</pre>
            cbind(ESS="ESS9",parameterEstimates(survey.semconffit3r9)))
coeffilter <- coef %>%
  mutate(est = ifelse(pvalue > 0.05, NA, round(est,3)),
         est = ifelse(rhs == "agea", est*10, est),
         rhs1 = ifelse(rhs == "gndrD", "Gender (Female / Male)",
                       ifelse(rhs == "agea", "Age (10 years increment)",
                              ifelse(rhs == "eisced2", "Highest level of education, (Upper secondary or
                                      ifelse(rhs == "eisced3", "Highest level of education, (Bachelor or
                                             ifelse(rhs == "domicil2", "Domicile (Town or small city/Cour
                                                    ifelse(rhs == "domicil3", "Domicile (Suburbs or outs)
                                                           ifelse(rhs == "domicil4", "Domicile (A big ci
         rhs1 = stringr::str_wrap(rhs1,40)) %>%
  filter(op == "~")
coeffilter1 <- coeffilter %>% filter(rhs %in% c("gndrD","agea"))
val_lab(coeffilter1$block) <- cntrylabels</pre>
use_labels(coeffilter1, {
  ggplot(coeffilter1,aes(x=factor(block), y=est, label = est)) +
  geom_bar(stat="identity") +
  coord_flip() +
  geom_text(hjust = ifelse(est >= 0, 1.02, 0.02), color ="white", size=3.5) +
  facet_grid(rhs1~ESS) +
    scale_x_discrete(limits = rev(levels(factor(block))))+
    xlab("Countries") + ylab("Estimates coefficient") +
    ggtitle("Personal background")
})
```

- ## Warning: Removed 16 rows containing missing values (position_stack).
- ## Warning: Removed 16 rows containing missing values (geom_text).

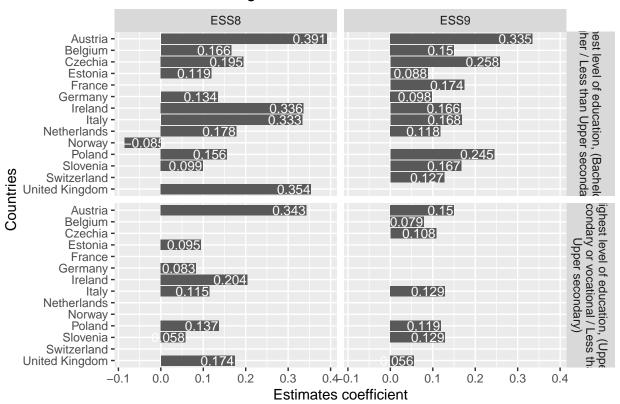
Personal background



```
coeffilter2 <- coeffilter %>% filter(str_detect(rhs,"eisced"))
val_lab(coeffilter2$block) <- cntrylabels
use_labels(coeffilter2, {
    ggplot(coeffilter2,aes(x=factor(block), y=est, label = est)) +
        geom_bar(stat="identity") +
        coord_flip() +
        geom_text(hjust = ifelse(est >= 0, 1.02, 0.02), color ="white", size=3.5) +
        facet_grid(rhs1~ESS) +
        scale_x_discrete(limits = rev(levels(factor(block))))+
        xlab("Countries") + ylab("Estimates coefficient")+
        ggtitle("Educational background")
})
```

- ## Warning: Removed 17 rows containing missing values (position_stack).
- ## Warning: Removed 17 rows containing missing values (geom_text).

Educational background



```
coeffilter3 <- coeffilter %>% filter(str_detect(rhs, "domicil"))
val_lab(coeffilter3$block) <- cntrylabels
use_labels(coeffilter3, {
    ggplot(coeffilter3, aes(x=factor(block), y=est, label = est)) +
    geom_bar(stat="identity") +
    coord_flip() +
    geom_text(hjust = ifelse(est >= 0, 1.02, 0.02), color ="white", size=3.5) +
    facet_grid(rhs1~ESS, labeller = label_context) +
        scale_x_discrete(limits = rev(levels(factor(block))))+
        xlab("Countries") + ylab("Estimates coefficient") +
        ggtitle("Geographical background")
})
```

- ## Warning: Removed 59 rows containing missing values (position_stack).
- ## Warning: Removed 59 rows containing missing values (geom_text).

Geographical background

