Structural equations modeling

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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

```
setwd("C:/Users/pamel/Documents/ESS/")
load("ESS5-9Round.RData")
items_o <- c("iphlppl", "iplylfr", "ipeqopt", "ipudrst", "impenv")</pre>
vars <- c(items_o,</pre>
          "cntry", "dweight", "hhmmb", "gndr", "agea", "GINI", "GDP", "HDI",
          "dvrcdeva", "domicil", "eisced", "name", "essround", "idno")
cont <- c("hhmmb", "agea")</pre>
cat <- vars[which(!(vars%in%c(cont, "name", "essround", "idno", "cntry", "dweight")))]</pre>
round \leftarrow c(8,9)
countries <- c("Austria", "Belgium", "Czechia", "Estonia", "France", "Germany",</pre>
                "Ireland","Italy","Netherlands","Norway","Poland","Slovenia","Switzerland","United Kingd
#"Hungary", "Finland"
ds_filtradaAll <- ds %>% filter(cntry %in% countries & essround %in% round) %>%
  select(vars)
ds_filtradaAll <- copy_labels(ds_filtradaAll, ds)</pre>
table(as_character(ds_filtradaAll$cntry),ds_filtradaAll$essround)
##
##
                        8
##
     Austria
                     2010 2499
##
     Belgium
                     1766 1767
     Czechia
##
                     2269 2398
     Estonia
                     2019 1904
##
##
     France
                     2070 2010
                     2852 2358
##
     Germany
##
                     2757 2216
     Ireland
##
     Italy
                     2626 2745
##
     Netherlands
                     1681 1673
##
                     1545 1406
     Norway
##
     Poland
                     1694 1500
##
     Slovenia
                     1307 1318
##
     Switzerland
                     1525 1542
     United Kingdom 1959 2204
##
```

by(ds_filtradaAll, ds_filtradaAll\$essround,function(x) describe(x))

```
## Warning in describe(x): NAs introduced by coercion
## Warning in NextMethod(): NAs introduced by coercion
## Warning in FUN(newX[, i], ...): no non-missing arguments to min; returning
## Warning in FUN(newX[, i], ...): no non-missing arguments to min; returning
## Warning in FUN(newX[, i], ...): no non-missing arguments to max; returning
## -Inf
## Warning in FUN(newX[, i], ...): no non-missing arguments to max; returning
## -Inf
## Warning in describe(x): NAs introduced by coercion
## Warning in NextMethod(): NAs introduced by coercion
## Warning in FUN(newX[, i], ...): no non-missing arguments to min; returning
## Inf
## Warning in FUN(newX[, i], ...): no non-missing arguments to min; returning
## Warning in FUN(newX[, i], ...): no non-missing arguments to max; returning
## -Inf
## Warning in FUN(newX[, i], ...): no non-missing arguments to max; returning
## -Inf
## ds_filtradaAll$essround: 8
##
                                              sd median
                                                            trimmed
                                                                         mad
            vars
                     n
                               mean
               1 27837
## iphlppl
                               2.19
                                            0.98
                                                    2.00
                                                                2.08
                                                                        1.48
## iplylfr
               2 27833
                               1.94
                                            0.89
                                                    2.00
                                                                1.83
                                                                        1.48
                                                    2.00
## ipeqopt
               3 27810
                               2.19
                                            1.06
                                                                2.06
                                                                        1.48
## ipudrst
               4 27780
                               2.35
                                                    2.00
                                                                2.26
                                                                        1.48
                                            1.04
## impenv
               5 27849
                               2.17
                                            1.03
                                                    2.00
                                                                2.05
                                                                        1.48
               6 28080
                                                      NA
                                                                NaN
                                                                          NA
## cntry*
                               NaN
                                              NA
## dweight
               7 28080
                               1.00
                                            0.36
                                                    1.00
                                                                0.97
                                                                        0.08
## hhmmb
               8 27962
                               2.58
                                            1.34
                                                    2.00
                                                                2.44
                                                                        1.48
## gndr
               9 28078
                              1.52
                                            0.50
                                                    2.00
                                                               1.52
                                                                        0.00
              10 27973
                                                   49.00
                                                               48.88
                                                                       22.24
## agea
                             49.05
                                           18.55
              11 28080
                                            2.67
                                                   29.40
                                                               28.84
                                                                        3.26
## GINI
                              28.85
                                                                2.12
## GDP
              12 28080
                               2.17
                                            0.78
                                                    2.19
                                                                        0.70
## HDI
              13 28080
                               0.91
                                            0.03
                                                    0.92
                                                               0.91
                                                                        0.03
## dvrcdeva
              14 27923
                               1.84
                                            0.37
                                                    2.00
                                                               1.93
                                                                        0.00
                                                    3.00
## domicil
              15 28056
                               3.05
                                            1.18
                                                                3.09
                                                                        1.48
                                                                        1.48
              16 27983
                               4.02
                                            3.04
                                                    4.00
                                                                3.86
## eisced
## name*
              17 28080
                               NaN
                                              NA
                                                      NA
                                                                {\tt NaN}
                                                                          NA
## essround
              18 28080
                               8.00
                                            0.00
                                                    8.00
                                                                8.00
                                                                        0.00
## idno
              19 28080 49857026.67 142092162.41 2917.00 9232455.03 3104.56
              min
                                       range skew kurtosis
                           max
                                                                    se
             1.00
                           6.00
                                        5.00 0.81
                                                       0.67
                                                                  0.01
## iphlppl
## iplylfr
             1.00
                           6.00
                                        5.00 1.10
                                                       1.64
                                                                  0.01
## ipeqopt
             1.00
                          6.00
                                        5.00 0.96
                                                       0.83
                                                                  0.01
                                        5.00 0.83
## ipudrst
             1.00
                          6.00
                                                       0.63
                                                                  0.01
```

```
6.00
                                  5.00 0.86
                                               0.59
                                                         0.01
## impenv
           1.00
## cntry*
                      -Inf
                                  -Inf
                                         NA
                                               NA
                                                         NΑ
           Inf
                                               20.92
                                                         0.00
## dweight
           0.04
                      6.21
                                  6.17 2.50
## hhmmb
           1.00
                     12.00
                                                         0.01
                                 11.00 0.88
                                               0.79
## gndr
           1.00
                      2.00
                                  1.00 -0.07
                                              -2.00
                                                        0.00
## agea
          15.00
                     100.00
                                 85.00 0.05 -0.90
                                                        0.11
## GINI
          24.40
                      33.10
                                  8.70 -0.03 -1.03
                                                        0.02
                                  2.61 0.38
                                              -0.70
## GDP
                                                        0.00
          1.07
                      3.68
## HDI
           0.86
                      0.95
                                  0.09 -0.06
                                              -1.43
                                                        0.00
## dvrcdeva 1.00
                      2.00
                                                        0.00
                                  1.00 -1.86
                                            1.47
## domicil 1.00
                      5.00
                                  4.00 -0.43
                                              -0.76
                                                         0.01
## eisced
           1.00
                      55.00
                                 54.00 10.75
                                            177.06
                                                         0.02
## name*
            Inf
                       -Inf
                                  -Inf
                                         NΑ
                                                 NΑ
                                                         NA
## essround 8.00
                       8.00
                                  0.00
                                        NaN
                                                         0.00
                                                {\tt NaN}
## idno
           1.00 551603139.00 551603138.00 3.14
                                               8.19 847952.59
## -----
## ds_filtradaAll$essround: 9
          vars n mean
                                      median trimmed
                                                              min
                                sd
                                                        mad
                                               2.05
                                                       1.48 1.00
            1 27207
                        2.15
                               0.96
                                       2.00
## iphlppl
## iplylfr
             2 27227
                       1.90
                               0.88
                                       2.00
                                               1.79
                                                       1.48 1.00
## ipeqopt
             3 27145
                       2.18
                             1.05
                                       2.00
                                               2.04
                                                       1.48 1.00
## ipudrst
             4 27124
                       2.33
                            1.03
                                     2.00
                                               2.24
                                                       1.48 1.00
                                                       1.48 1.00
## impenv
             5 27228
                       2.00
                               0.99
                                       2.00
                                              1.87
## cntry*
             6 27540
                       NaN
                               NA
                                         NA
                                               NaN
                                                         NA
                                                             Inf
                      1.00
                             0.32
                                       1.00
                                               0.98
                                                       0.03 0.31
## dweight
             7 27540
## hhmmb
            8 27466
                      2.58
                              1.34
                                      2.00 2.44
                                                      1.48 1.00
## gndr
             9 27540
                       1.52
                               0.50
                                       2.00
                                               1.53
                                                       0.00 1.00
            10 27389
                       50.09
                             18.73
                                      50.00 50.03
                                                       22.24 15.00
## agea
                                                      3.85 23.40
## GINI
            11 27540
                      28.59
                             3.15
                                     28.50 28.59
## GDP
            12 27540
                      2.86
                               2.00
                                      2.42 2.53
                                                      1.43 0.77
                                              0.91
## HDI
            13 27540
                      0.91
                              0.03
                                      0.91
                                                       0.03 0.87
## dvrcdeva
            14 27431
                      1.84
                             0.37
                                       2.00 1.93
                                                       0.00 1.00
                       3.00
                                                       1.48 1.00
## domicil
            15 27522
                               1.19
                                       3.00
                                               3.04
## eisced
            16 27469
                       4.19
                               3.51
                                       4.00
                                               3.99
                                                       1.48 1.00
## name*
            17 27540
                        {\tt NaN}
                                NA
                                        NA
                                                {\tt NaN}
                                                        NA
                                                             Inf
            18 27540
## essround
                       9.00
                               0.00
                                       9.00
                                               9.00
                                                        0.00 9.00
## idno
            19 27540 24377.60 14025.85 24418.00 24390.60 18015.81 1.00
##
                     range skew kurtosis
                                        se
              max
                      5.00 0.84
## iphlppl
              6.00
                                0.78 0.01
                                   1.94 0.01
## iplylfr
            6.00
                      5.00 1.15
## ipeqopt
             6.00
                      5.00 1.00
                                   0.97 0.01
## ipudrst
              6.00
                      5.00 0.86
                                   0.74 0.01
                      5.00 1.06
                                  1.11 0.01
## impenv
             6.00
                    -Inf NA
                                   NA
## cntry*
             -Inf
                                        NA
             5.13
                   4.82 2.91
                                  23.82 0.00
## dweight
                    14.00 0.92
## hhmmb
             15.00
                                  1.18 0.01
                                  -1.99 0.00
                     1.00 -0.10
## gndr
             2.00
## agea
             90.00
                     75.00 0.01
                                  -0.94 0.11
## GINI
             33.50
                     10.10 0.08
                                  -1.04 0.02
## GDP
                     7.40 1.43
                                   1.35 0.01
             8.17
## HDI
             0.95
                    0.08 0.03
                                  -1.38 0.00
            2.00
                    1.00 -1.87
                                  1.49 0.00
## dvrcdeva
## domicil
            5.00
                   4.00 -0.39
                                -0.84 0.01
                                 150.23 0.02
## eisced
             55.00
                     54.00 10.57
```

```
## name*
                           -Inf
                 -Inf
                                   NA
                                             NA
                                            NaN
                                                 0.00
                 9.00
                           0.00
                                  NaN
## essround
             48636.00 48635.00 -0.01
## idno
                                          -1.20 84.52
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
                                         2
                                                                          10
                               45
                                                57
                                                          9
                                                                 15
##
     Not like me
                               66
                                        29
                                               202
                                                        115
                                                                107
                                                                         73
##
     A little like me
                              266
                                        83
                                               783
                                                        384
                                                                464
                                                                        182
##
     Somewhat like me
                              942
                                       669
                                               1616
                                                       1163
                                                                778
                                                                        814
##
     Like me
                             1837
                                                               1424
                                                                       2496
                                      1825
                                               1428
                                                       1699
##
     Very much like me
                             1308
                                       914
                                               521
                                                        539
                                                               1257
                                                                       1586
##
                               45
                                        11
                                                         14
                                                                 35
                                                                          49
     <NA>
                                                 60
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
     Not like me at all
                                                                   7
##
                               16
                                      27
                                                    3
                                                           3
                                                                             6
                                                                  66
##
     Not like me
                               89
                                      63
                                                   32
                                                          24
                                                                            21
##
     A little like me
                                     390
                                                   84
                                                         276
                                                                 326
                              344
                                                                            46
##
     Somewhat like me
                              768
                                   1765
                                                  640
                                                         550
                                                                 814
                                                                           290
##
     Like me
                             2144
                                   1999
                                                 1779
                                                        1338
                                                                1399
                                                                          1472
     Very much like me
                             1578
                                   1000
                                                 793
                                                         737
                                                                           766
                                                                 510
```

```
##
     <NA>
                               34
                                    127
                                                   23
                                                          23
                                                                  72
                                                                            24
##
##
                          Switzerland United Kingdom
##
                                    4
     Not like me at all
##
     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
                                                       4.31
                                                              7.18
                                                                       4.78
##
                             6.97
                                      3.06
                                             21.33
                                                             11.30
                                                                       7.71
     Not like me
                                                      12.14
##
     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
##
                             7.61
                                     7.56
                                                       7.04
                                                               5.90
                                                                      10.34
     Like me
                                              5.92
##
     Very much like me
                             9.35
                                      6.53
                                              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
##
     A little like me
                             8.77 9.94
                                                        7.04
                                                               8.31
                                                                         1.17
                                                2.14
##
     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
##
                                 1.91
     Not like me at all
                                                  2.39
                                                  4.12
##
     Not like me
                                 2.22
     A little like me
##
                                 1.96
                                                  5.56
##
     Somewhat like me
                                 3.91
                                                  4.79
##
     Like me
                                 6.02
                                                  7.64
                                 7.33
                                                10.40
##
     Very much like me
##
   [1] "iplylfr_r: Important to be loyal to friends and devote to people close"
##
##
                          Austria Belgium Czechia Estonia France Germany
##
                               26
                                         1
                                                24
                                                                 17
                                                                          10
     Not like me at all
                                                         11
##
     Not like me
                               37
                                        13
                                                88
                                                         44
                                                                 44
                                                                          20
##
     A little like me
                              179
                                        37
                                               381
                                                        146
                                                                224
                                                                         50
##
     Somewhat like me
                                                                566
                                                                        278
                              445
                                      313
                                              1262
                                                        594
##
     Like me
                             1611
                                      1895
                                              1871
                                                       2218
                                                               1397
                                                                       2204
     Very much like me
                                                                       2598
##
                             2180
                                      1264
                                               979
                                                        897
                                                               1800
##
                                                                          50
     <NA>
                               31
                                        10
                                                62
                                                         13
                                                                 32
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                               20
                                      21
                                                    3
                                                           1
                                                                   8
                                                                             8
##
     Not like me
                                      43
                                                   37
                                                                  29
                                                                            58
                               87
                                                          12
##
     A little like me
                              341
                                    247
                                                  51
                                                          95
                                                                 167
                                                                            92
##
     Somewhat like me
                              726
                                   1389
                                                  434
                                                         253
                                                                 483
                                                                          366
                                                1927
##
     Like me
                             2196
                                   2282
                                                        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
                                                     8
##
     Not like me
                                    15
                                                    54
                                    27
##
     A little like me
                                                   212
##
     Somewhat like me
                                   204
                                                   473
##
     Like me
                                                  1912
                                  1331
##
     Very much like me
                                                  1464
                                  1461
     <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
                                      2.24
                                                       7.57
                                                                        3.44
##
     Not like me
                             6.37
                                              15.15
                                                               7.57
     A little like me
##
                             7.96
                                      1.65
                                              16.94
                                                       6.49
                                                               9.96
                                                                        2.22
##
                                      4.02
                                                               7.27
     Somewhat like me
                             5.72
                                              16.21
                                                       7.63
                                                                        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
                                                        0.62
                                                                5.00
                                                 1.88
                                                                          5.00
##
     Not like me
                            14.97 7.40
                                                 6.37
                                                        2.07
                                                                4.99
                                                                          9.98
##
                                                                7.43
     A little like me
                            15.16 10.98
                                                 2.27
                                                        4.22
                                                                          4.09
##
     Somewhat like me
                             9.32 17.84
                                                 5.57
                                                        3.25
                                                                6.20
                                                                          4.70
##
     Like me
                             8.72 9.06
                                                        5.74
                                                                6.01
                                                                          5.49
                                                 7.65
##
     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
                                                  5.00
                                  2.58
                                                  9.29
##
     Not like me
##
     A little like me
                                 1.20
                                                  9.43
##
     Somewhat like me
                                 2.62
                                                  6.08
##
     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
                                                                 18
                                                                          48
##
     Not like me
                               86
                                        54
                                                212
                                                         329
                                                                 71
                                                                         194
##
     A little like me
                              296
                                       117
                                                568
                                                         420
                                                                271
                                                                         240
##
     Somewhat like me
                              902
                                       699
                                               1362
                                                       1059
                                                                644
                                                                         750
##
     Like me
                             1800
                                                       1627
                                                               1215
                                                                        2340
                                      1680
                                               1627
##
     Very much like me
                             1333
                                       957
                                                         422
                                                               1825
                                                                        1581
                                                751
##
     <NA>
                               45
                                        18
                                                 94
                                                          15
                                                                 36
                                                                          57
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                               34
                                      31
                                                   11
                                                          12
                                                                  20
     Not like me
                                                                  80
                                                                            54
##
                              129
                                     112
                                                   65
                                                          104
                                                   77
                                                                 223
##
     A little like me
                              438
                                     402
                                                          292
                                                                            48
##
     Somewhat like me
                              854
                                    1727
                                                  501
                                                          437
                                                                 575
                                                                           222
##
     Like me
                             1937
                                    1834
                                                 1871
                                                         1318
                                                                1425
                                                                          1325
##
     Very much like me
                             1542
                                    1121
                                                  805
                                                          763
                                                                 809
                                                                           940
##
                               39
                                                           25
     <NA>
                                     144
                                                   24
                                                                  62
                                                                            28
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                    21
```

```
##
     Not like me
                                  102
                                                  139
##
     A little like me
                                  178
                                                  326
##
     Somewhat like me
                                  426
                                                  663
##
     Like me
                                 1342
                                                 1661
##
     Very much like me
                                  962
                                                 1304
##
     <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
##
                                     3.12
                                                                      11.21
     Not like me
                             4.97
                                             12.25
                                                      19.01
                                                              4.10
##
     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
##
     Like me
                             7.83
                                     7.30
                                              7.07
                                                       7.07
                                                              5.28
                                                                      10.17
##
     Very much like me
                             8.82
                                     6.33
                                              4.97
                                                             12.07
                                                       2.79
                                                                      10.46
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
                             8.72 7.95
                                                2.82
                                                        3.08
     Not like me at all
                                                               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
                             8.42 7.97
##
     Like me
                                                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
##
     Not like me
                                 5.89
                                                 8.03
##
     A little like me
                                 4.57
                                                 8.37
##
                                 3.94
                                                 6.13
     Somewhat like me
##
     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
##
                                         9
     Not like me at all
                               63
                                                96
                                                         15
                                                                37
                                                                         18
                                        72
##
     Not like me
                              129
                                               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
                                                        560
                                                              1150
                                                                       1310
##
     <NA>
                               50
                                        17
                                                         13
                                                                34
                                                                         57
                                                91
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
                                                           4
     Not like me at all
                               33
                                     37
                                                  11
                                                                  19
##
                                    126
                                                 104
                                                          63
                                                                122
                                                                           81
     Not like me
                              177
##
                                    583
                                                                 382
     A little like me
                              530
                                                 178
                                                         319
                                                                          116
##
                                                 779
     Somewhat like me
                              940
                                   1857
                                                         594
                                                                698
                                                                          375
##
     Like me
                             2166
                                   1818
                                                1765
                                                        1436
                                                               1427
                                                                         1525
##
                             1088
                                                 489
                                                         512
                                                                          495
     Very much like me
                                    770
                                                                461
##
     <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>
                                                    42
                                   32
##
##
                          Austria Belgium Czechia Estonia France Germany
##
                            16.45
                                     2.35
                                             25.07
                                                       3.92
     Not like me at all
                                                              9.66
                                                                       4.70
     Not like me
##
                             7.42
                                     4.14
                                             17.03
                                                       7.88
                                                                       6.21
                                                              8.17
##
     A little like me
                             7.22
                                     3.41
                                             16.35
                                                       6.88
                                                              9.67
                                                                       4.47
##
                                     6.70
                                                       7.52
                                                                       6.19
     Somewhat like me
                             9.19
                                             12.81
                                                              6.48
##
     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
##
                             8.62 9.66
                                                2.87
                                                        1.04
                                                               4.96
     Not like me at all
                                                                         2.09
##
     Not like me
                            10.18 7.25
                                                5.98
                                                        3.62
                                                               7.02
                                                                         4.66
##
     A little like me
                                                3.57
                                                        6.40
                                                               7.66
                                                                         2.33
                            10.63 11.70
##
     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
##
     Very much like me
                                                4.64
                                                        4.86
                                                               4.37
                                                                         4.69
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                                 6.79
                                 1.83
##
     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
                                                 8.95
##
     Very much like me
##
   [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
                               66
                                        29
                                               132
                                                         52
                                                               157
                                                                        113
##
     A little like me
                              253
                                      158
                                               432
                                                               491
                                                                        274
                                                        180
##
     Somewhat like me
                              757
                                      717
                                              1200
                                                        667
                                                               648
                                                                        856
##
     Like me
                             1636
                                     1698
                                                       1808
                                                              1275
                                                                       2206
                                              1638
##
     Very much like me
                             1732
                                      910
                                              1173
                                                       1198
                                                              1442
                                                                       1697
##
     <NA>
                               31
                                        11
                                                65
                                                         13
                                                                 34
                                                                         48
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                               35
                                     14
                                                  16
                                                          13
                                                                  7
##
     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
                                                1609
                                                        1207
                                   1921
                                                               1390
                                                                         1198
##
                             1628
                                                 745
     Very much like me
                                   1759
                                                         563
                                                                928
                                                                         1099
##
     <NA>
                               34
                                    121
                                                  23
                                                          24
                                                                 58
                                                                           18
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                    4
##
     Not like me
                                   33
                                                  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
##
     Not like me at all
                            14.47
                                     4.26
                                             11.49
                                                       2.13
                                                             14.04
##
     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
                                     6.96
                                                       6.48
                                                              6.29
                             7.35
                                             11.65
                                                                       8.31
##
     Like me
                             7.35
                                     7.63
                                              7.36
                                                       8.12
                                                              5.73
                                                                       9.91
     Very much like me
##
                             9.98
                                                       6.90
                                                                       9.78
                                     5.24
                                              6.76
                                                              8.31
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                            14.89 5.96
                                                6.81
                                                        5.53
                                                               2.98
                                                                         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
##
     Somewhat like me
                             8.71 11.87
                                                7.09
                                                        6.13
                                                               5.52
                                                                         2.24
##
                             8.20 8.63
                                                        5.42
     Like me
                                                7.23
                                                               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
                                 4.47
                                                 6.92
     Like me
##
                                 5.70
                                                 7.13
     Very much like me
                                 6.66
                                                 7.62
##
   [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
                              942
                                      669
                                              1616
                                                       1163
                                                               778
                                                                        814
##
     Like me
                                                                       2496
                             1837
                                     1825
                                              1428
                                                       1699
                                                              1424
##
     Very much like me
                             1308
                                       914
                                               521
                                                        539
                                                              1257
                                                                       1586
##
     <NA>
                               45
                                        11
                                                60
                                                         14
                                                                35
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                               16
                                     27
                                                   3
                                                           3
                                                                  7
                                                                            6
##
     Not like me
                               89
                                     63
                                                  32
                                                          24
                                                                 66
                                                                           21
##
     A little like me
                                    390
                                                  84
                                                                326
                                                                           46
                              344
                                                         276
     Somewhat like me
##
                              768
                                   1765
                                                 640
                                                         550
                                                                814
                                                                          290
     Like me
                                   1999
##
                             2144
                                                1779
                                                        1338
                                                               1399
                                                                         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
##
     Not like me
                                   21
                                                   39
                                   77
##
     A little like me
                                                  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
                            21.53
                                      0.96
##
     Not like me at all
                                             27.27
                                                       4.31
                                                               7.18
                                                                       4.78
                                                                       7.71
##
     Not like me
                             6.97
                                      3.06
                                             21.33
                                                      12.14
                                                              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
                                                       9.82
                                                                       6.88
                                             13.65
                                                               6.57
##
     Like me
                                                       7.04
                                                                       10.34
                             7.61
                                      7.56
                                              5.92
                                                               5.90
     Very much like me
##
                             9.35
                                      6.53
                                              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
                                                        2.53
##
     Not like me
                             9.40 6.65
                                                 3.38
                                                                6.97
                                                                          2.22
##
     A little like me
                             8.77 9.94
                                                2.14
                                                        7.04
                                                                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
                                                        5.54
                                                                5.80
                                                                          6.10
                                                 7.37
##
     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
                                                  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
##
     Not like me at all
                               26
                                         1
                                                 24
                                                         11
                                                                 17
                                                                          10
                                                                          20
##
     Not like me
                               37
                                        13
                                                88
                                                         44
                                                                 44
##
     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
##
                                                                          50
     <NA>
                               31
                                        10
                                                62
                                                         13
                                                                 32
##
##
                          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
                                                   51
                                                          95
                                                                 167
                                                                            92
##
     Somewhat like me
                              726
                                                         253
                                                                 483
                                                                           366
                                   1389
                                                  434
##
     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
                                     2
##
     Not like me at all
##
     Not like me
                                    15
                                                    54
##
     A little like me
                                   27
                                                   212
##
     Somewhat like me
                                  204
                                                   473
##
     Like me
                                 1331
                                                  1912
##
     Very much like me
                                                  1464
                                 1461
##
     <NA>
                                    27
                                                    40
##
```

Austria Belgium Czechia Estonia France Germany

##

```
6.25
##
     Not like me at all
                            16.25
                                     0.62
                                             15.00
                                                      6.88 10.62
##
     Not like me
                            6.37
                                     2.24
                                             15.15
                                                      7.57
                                                              7.57
                                                                      3.44
                                                                      2.22
##
     A little like me
                            7.96
                                     1.65
                                             16.94
                                                      6.49
                                                              9.96
##
                                                                      3.57
     Somewhat like me
                            5.72
                                     4.02
                                             16.21
                                                      7.63
                                                              7.27
##
     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
                                                                         5.00
##
                            14.97 7.40
                                                       2.07
                                                               4.99
                                                                         9.98
     Not like me
                                                6.37
##
     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
##
     Like me
                            8.72 9.06
                                                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
##
                                 1.25
                                                 5.00
     Not like me at all
##
     Not like me
                                 2.58
                                                 9.29
##
     A little like me
                                 1.20
                                                 9.43
##
     Somewhat like me
                                 2.62
                                                 6.08
##
     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
                                                                18
                                                                        48
##
     Not like me
                               86
                                       54
                                               212
                                                       329
                                                                71
                                                                        194
##
     A little like me
                              296
                                                               271
                                                                        240
                                      117
                                               568
                                                       420
##
     Somewhat like me
                              902
                                      699
                                                      1059
                                                               644
                                                                        750
                                              1362
##
     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
##
     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
##
     Very much like me
                            1542
                                   1121
                                                 805
                                                         763
                                                                809
                                                                          940
##
     <NA>
                               39
                                    144
                                                  24
                                                         25
                                                                 62
                                                                           28
##
##
                         Switzerland United Kingdom
##
     Not like me at all
                                   21
                                                   28
##
                                  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
##
     <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
                            4.97
##
     Not like me
                                     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
                             8.34
                                     6.46
                                             12.59
                                                       9.79
                                                              5.95
                                                                       6.93
##
     Like me
                             7.83
                                     7.30
                                              7.07
                                                       7.07
                                                              5.28
                                                                      10.17
     Very much like me
                             8.82
##
                                     6.33
                                              4.97
                                                       2.79
                                                             12.07
                                                                      10.46
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
                                                2.82
                                                        3.08
     Not like me at all
                             8.72 7.95
                                                               5.13
                                                                         2.05
##
     Not like me
                                                3.76
                                                        6.01
                                                               4.62
                                                                         3.12
                             7.45 6.47
##
     A little like me
                            11.24 10.32
                                                1.98
                                                        7.49
                                                               5.72
                                                                         1.23
##
                                                        4.04
                                                                         2.05
     Somewhat like me
                            7.89 15.96
                                                4.63
                                                               5.31
##
     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
##
                                 5.38
                                                 7.18
     Not like me at all
##
     Not like me
                                 5.89
                                                 8.03
##
     A little like me
                                 4.57
                                                 8.37
##
     Somewhat like me
                                 3.94
                                                 6.13
                                 5.83
##
     Like me
                                                 7.22
##
     Very much like me
                                 6.36
                                                 8.63
##
   [1] "ipudrst_r: Important to understand different people"
##
##
                          Austria Belgium Czechia Estonia France Germany
##
                                         9
                                                96
     Not like me at all
                               63
                                                         15
                                                                37
                                                                         18
##
     Not like me
                                               296
                                                                        108
                              129
                                       72
                                                        137
                                                               142
##
     A little like me
                              360
                                      170
                                               815
                                                        343
                                                               482
                                                                        223
##
     Somewhat like me
                             1168
                                      852
                                              1628
                                                        956
                                                               823
                                                                        787
##
                                                                       2707
     Like me
                             1728
                                     1811
                                              1357
                                                       1899
                                                              1412
##
                             1011
                                      602
                                               384
                                                        560
                                                              1150
                                                                       1310
     Very much like me
##
     <NA>
                               50
                                        17
                                                91
                                                         13
                                                                 34
                                                                         57
##
##
                          Ireland Italy Netherlands Norway Poland Slovenia
##
     Not like me at all
                               33
                                     37
                                                  11
                                                           4
                                                                 19
                                                                            8
##
     Not like me
                              177
                                    126
                                                 104
                                                                 122
                                                                           81
                                                          63
##
     A little like me
                              530
                                    583
                                                 178
                                                         319
                                                                 382
                                                                          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
                                                  28
                                                          23
                                                                  85
                                                                           25
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                    7
                                                    26
##
     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>
                                                    42
                                   32
##
##
                          Austria Belgium Czechia Estonia France Germany
##
     Not like me at all
                            16.45
                                     2.35
                                                                       4.70
                                             25.07
                                                       3.92
                                                              9.66
                                     4.14
                                                       7.88
                                                                       6.21
##
     Not like me
                             7.42
                                             17.03
                                                              8.17
##
     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
                                      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
##
     Not like me
                            10.18 7.25
                                                 5.98
                                                        3.62
                                                                7.02
                                                                          4.66
##
     A little like me
                                                        6.40
                                                                7.66
                                                                          2.33
                            10.63 11.70
                                                 3.57
##
     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
##
     Very much like me
                            10.32 7.30
                                                 4.64
                                                        4.86
                                                                4.37
                                                                          4.69
##
##
                          Switzerland United Kingdom
##
     Not like me at all
                                 1.83
                                                  6.79
##
     Not like me
                                                  7.25
                                 3.16
     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
                                                27
     Not like me at all
                               34
                                                          5
##
     Not like me
                                        29
                                               132
                                                         52
                               66
                                                                157
                                                                        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
##
     Not like me at all
                               35
                                      14
                                                   16
                                                          13
                                                                   7
##
     Not like me
                              131
                                      51
                                                   68
                                                         132
                                                                  55
                                                                            25
##
     A little like me
                              423
                                     282
                                                  163
                                                         381
                                                                 187
                                                                            51
##
                              897
                                                  730
                                                         631
                                                                           231
     Somewhat like me
                                   1223
                                                                 569
##
     Like me
                             1825
                                    1921
                                                 1609
                                                        1207
                                                                1390
                                                                          1198
##
                             1628
                                                  745
                                                                          1099
     Very much like me
                                   1759
                                                         563
                                                                 928
##
     <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
                                  460
##
     Somewhat like me
                                                   713
##
     Like me
                                 1269
                                                  1588
##
     Very much like me
                                 1156
                                                  1322
##
     <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
##
                             6.76
                                     4.22
                                                       4.81
                                                             13.11
                                                                       7.32
     A little like me
                                             11.54
                                      6.96
##
     Somewhat like me
                             7.35
                                             11.65
                                                       6.48
                                                               6.29
                                                                       8.31
##
     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
                                                              2.98
##
     Not like me at all
                                                      5.53
     Not like me
                           11.12 4.33
                                               5.77
                                                     11.21
                                                              4.67
                                                                       2.12
##
##
     A little like me
                           11.30 7.53
                                               4.35
                                                     10.17
                                                              4.99
                                                                       1.36
##
     Somewhat like me
                            8.71 11.87
                                               7.09
                                                      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
##
     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
##
     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
     essround
               Diff Pesos N
##
     <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$gndrD) <- "Gender (Female)"</pre>
use_labels(ds_filtradaAll,table(gndrD,as.character(cntry)))
##
## Gender (Female) Austria Belgium Czechia Estonia France Germany Ireland
                       2054
                               1755
                                        2146
                                                                2720
                  0
                                                1762
                                                        1866
                                                                        2407
                                        2521
##
                  1
                       2455
                               1778
                                                2161
                                                        2214
                                                                2490
                                                                        2566
##
   Gender (Female) Italy Netherlands Norway Poland Slovenia Switzerland
##
                  0
                    2581
                                 1585
                                         1607
                                                1517
                                                          1208
                                                                      1563
                    2790
                                 1769
                                                1675
                                                          1417
                                                                      1504
##
                  1
                                         1344
##
## Gender (Female) United Kingdom
##
                 0
                              1870
                              2293
##
                  1
val_lab(ds_filtradaAll$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
##
                                                       7
##
                                                   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
                                                       3097
                    Less than Upper secondary
                                                                1192
                                                                        1952
##
##
                    Upper secondary or vocational
                                                        807
                                                                1086
                                                                        2022
##
                                                        594
                                                                1233
                                                                         688
                    Bachelor or higher
##
  Highest level of education, ES - ISCED eiscedT Estonia France Germany
                    Less than Upper secondary
                                                               2006
##
                                                        805
                                                                       2551
                                                               1292
##
                    Upper secondary or vocational
                                                       1987
                                                                       1308
                                                       1129
                                                               776
                                                                       1324
##
                    Bachelor or higher
##
  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
                                                                          1053
##
                                                       1311
                                                              677
##
## 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
                                                            744
##
                    Upper secondary or vocational
                                                                           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
##
##
                  Town or small city
                                                        Country village
##
##
        Farm or home in countryside
                                                                Refusal
##
                                   5
                                                                      7
##
                          Don't know
                                                              No answer
##
                                                                      9
                                   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
##
                                                    1012
                                                              562
                                                                     1542
              A big city
##
## Domicile, respondent's description domicilT Estonia France Germany Ireland
##
              Countryside
                                                    1127
                                                            1444
                                                                    1719
                                                                             2078
##
              Town or small city
                                                     1246
                                                            1441
                                                                    1925
                                                                             1444
              Suburbs or outskirts of big city
##
                                                     369
                                                             512
                                                                     778
                                                                             1016
##
                                                    1180
                                                             682
                                                                     787
                                                                              428
              A big city
##
## Domicile, respondent's description domicilT Italy Netherlands Norway
##
              Countryside
                                                  2529
                                                               1530
                                                                      1085
                                                                       915
##
              Town or small city
                                                  1880
                                                                879
##
              Suburbs or outskirts of big city
                                                   322
                                                                312
                                                                       494
##
                                                                633
                                                                       452
              A big city
                                                   628
##
## Domicile, respondent's description domicilT Poland Slovenia Switzerland
                                                             1441
##
              Countryside
                                                   1426
                                                                         1714
##
              Town or small city
                                                   1021
                                                              573
                                                                          851
                                                                           243
##
              Suburbs or outskirts of big city
                                                     85
                                                              289
##
              A big city
                                                    655
                                                              318
                                                                           259
```

##

```
## Domicile, respondent's description domicilT United Kingdom
                                                            1076
##
              Countryside
                                                            1893
##
              Town or small city
              Suburbs or outskirts of big city
##
                                                             817
              A big city
                                                             373
domicilD <- as.dichotomy(ds_filtradaAll$domicilT, prefix="domicil")</pre>
names(domicilD)
## [1] "domicil1" "domicil2" "domicil3" "domicil4"
ds_filtradaAll <- cbind(ds_filtradaAll, eiscedD, domicilD)</pre>
ds_filtradaAll <- ds_filtradaAll[,!colnames(ds_filtradaAll) %in% c("eisced55")]</pre>
ds_filtradacntry <- ds_filtradaAll %>% group_by(essround,cntry) %>%
  summarise(n = n(),
            CntryAge = mean(agea, na.rm = TRUE),
            CntryFemale = sum(gndrD, na.rm = TRUE)/ n,
            CntryEisced1 = sum(eisced1,na.rm=TRUE)/ n,
            CntryEisced2 = sum(eisced2,na.rm=TRUE)/ n,
            CntryEisced3 = sum(eisced3,na.rm=TRUE)/ n,
            CntryDomici1 = sum(domicil1,na.rm=TRUE)/ n,
            CntryDomici2 = sum(domicil2,na.rm=TRUE)/ n,
            CntryDomici3 = sum(domicil3,na.rm=TRUE)/ n,
            CntryDomici4 = sum(domicil4,na.rm=TRUE)/ n) %>% select(-n)
ds_filtradaAll <- left_join(ds_filtradaAll,ds_filtradacntry, by=c("essround","cntry"))</pre>
ds_filtradamplus <- ds_filtradaAll</pre>
ds filtradamplus$cntry <- as.numeric(as.factor(ds filtradaAll$cntry))</pre>
ds_filtradamplus$essround <- as.numeric(as.factor(ds_filtradaAll$essround))</pre>
write.table(ds_filtradamplus[ds_filtradamplus$essround == 2,
                              c("cntry", "dweight", "HDI", "iphlppl_r", "iplylfr_r", "ipeqopt_r", "ipudrst_r",
                                "agea", "gndrD", "eisced2", "eisced3", "domicil2", "domicil3", "domicil4", "Cnt.
            row.names = FALSE, col.names = FALSE, sep = "\t", quote = FALSE, na = ".")
write.table(ds filtradamplus[ds filtradamplus$essround == 1,
                              c("cntry", "dweight", "HDI", "iphlppl_r", "iplylfr_r", "ipeqopt_r", "ipudrst_r",
                                "agea", "gndrD", "eisced2", "eisced3", "domicil2", "domicil3", "domicil4", "Cnt
            row.names = FALSE, col.names = FALSE, sep = "\t", quote = FALSE, na = ".")
```

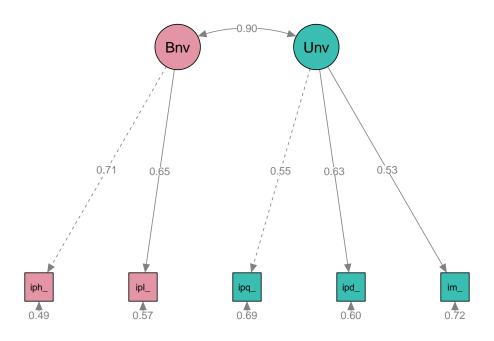
Model CFA

```
# countries <- c("Belgium", "Germany", "Ireland", "United Kingdom")
# ds_filtradaAll <- ds_filtradaAll1 %>% filter(cntry %in% countries)

#1st order
model13<-'
Benev =- iphlppl_r + iplylfr_r
Unive =- ipeqopt_r + ipudrst_r + impenv_r
Benev ~- Unive
'
# model23<-'
# STrasc =- iphlppl_r + iplylfr_r + ipeqopt_r + ipudrst_r + impenv_r
# '</pre>
```

```
# #2nd order
# model23<-'
# Benev =~ iphlppl_r + iplylfr_r
# Unive =~ ipegopt r + ipudrst r +impenv r
# STrasc =~ Benev + Unive
# STrasc ~~ 1*STrasc
# iplylfr_r ~~ impenv_r
#
# #Bi factor
# model33 <-'
# Benev =~ iphlppl_r + iplylfr_r
# Unive =~ ipeqopt_r + ipudrst_r +impenv_r
# STrasc =~ iphlppl_r + iplylfr_r + ipeqopt_r + ipudrst_r + impenv_r
# STrasc ~~
# 1
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(model13, 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("chisq","pvalue","cfi", "tli","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", "std", "lisrel", edge.label.cex = 0.8, intercepts = FALSE, grou
                     pastel = TRUE, optimizeLatRes = TRUE))
  print(summary(survey.fit3, standardized=T, rsquare=T, fit.measures=T))
}
## [1] "ESS round: 8"
##
          chisq
                                         cfi
                                                       t.li
                                                                    rmsea
                        pvalue
##
                                       0.990
                                                     0.976
                                                                    0.047
         243.650
                         0.000
##
           srmr chisq.scaled pvalue.scaled
                                              cfi.robust
                                                               tli.robust
                                       0.000
                                                                    0.976
##
           0.014
                       119.625
                                                     0.991
## rmsea.robust srmr_bentler
##
           0.046
                         0.014
##
                         rhs
                                        epc sepc.lv sepc.all sepc.nox
           lhs op
                                  mi
## 32 iplylfr_r ~~ impenv_r 166.589 0.065
                                            0.065
                                                      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 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
```



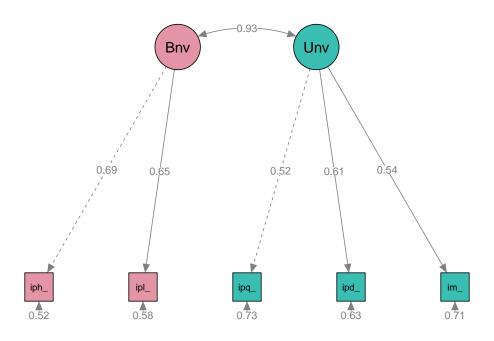
## ##	lavaan 0.6-5 ended normally after 27 ite	rations	
##	Estimator	ML	
##	Optimization method	NLMINB	
##	Number of free parameters	16	
##	•		
##	Number of observations	27533	
##			
##	Model Test User Model:		
##		Standard	Robust
##	Test Statistic	243.650	119.625
##	Degrees of freedom	4	4
##	P-value (Chi-square)	0.000	0.000
##	Scaling correction factor		2.037
##	for the Satorra-Bentler correction		
##			
##	Model Test Baseline Model:		
##			
##	Test statistic	24987.290	12047.652
##	Degrees of freedom	10	10
##	P-value	0.000	0.000
##	Scaling correction factor		2.074
##			
##	User Model versus Baseline Model:		
##			
##	Comparative Fit Index (CFI)	0.990	0.990

##	Tucker-Lewis In	dex (TLI)			0.976	0.9	76
## ##	Pohuat Comparat	ivo Fit Ind	ow (CEI)			0.9	Ω1
##	Robust Comparative Fit Index (CFI) Robust Tucker-Lewis Index (TLI)					0.9	
##	RODUST TUCKET-L	ewis index	(ILI)			0.9	70
	I omlikalihaad and	Informatio	n Critori				
##	Loglikelihood and	. Iniormatio	n Ciiceii	.a.			
##	Loglikelihood u	ser model (HU)	_18	3781 003	-183781.9	กร
##	Loglikelihood u					-183660.0	
##	LOGIINCIIIIOOG G	mestricted	. moder (ii	11) 10	0000.010	100000.0	70
##	Akaike (AIC)			36	7595.807	367595.8	07
##	Bayesian (BIC)					367727.3	
##	Sample-size adj	usted Baves	ian (BIC)			367676.5	
##			(,				
##	Root Mean Square	Error of Ap	proximati	on:			
##	1	1	1				
##	RMSEA				0.047	0.0	32
##	90 Percent conf	idence inte	rval - lo	wer	0.042	0.0	29
##	90 Percent conf	idence inte	rval - up	per	0.052	0.0	36
##	P-value RMSEA <	= 0.05			0.859	1.0	00
##							
##	Robust RMSEA					0.0	46
##	# 90 Percent confidence interval - lower			wer		0.0	39
##	90 Percent confidence interval - upper 0.054					54	
##							
	Standardized Root Mean Square Residual:						
##	an.a						
##	SRMR				0.014	0.0	14
##	December Betimet						
	Parameter Estimat	es:					
##	Information				Erro	-a+ad	
##							
##							
##	Standard errors Robust.cluster.sem						
	Latent Variables:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev =~				,		
##	iphlppl_r	1.000				0.703	0.714
##	iplylfr_r	0.838	0.016	53.208	0.000	0.588	0.652
##	Unive =~						
##	ipeqopt_r	1.000				0.593	0.552
##	ipudrst_r	1.107	0.023	48.717	0.000	0.657	0.629
##	impenv_r	0.920	0.021	43.140	0.000	0.546	0.528
##							
##	Covariances:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev ~~						
##	Unive	0.375	0.009	44.019	0.000	0.899	0.899
##							
##	Intercepts:		Q. 1 5	-	D(>)	Q1 2 3	Q. 1 33
##	31.7	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
## ##	.iphlppl_r .iplylfr_r	4.808 5.062	0.007 0.006	715.495	0.000	4.808	4.884
	inivi tr r	อ.บถว	U.UUD	782.361	0.000	5.062	5.611

```
0.008 595.994
                                                        0.000
                                                                  4.797
##
      .ipeqopt_r
                           4.797
                                                                            4.467
                           4.642
                                                        0.000
##
                                     0.007
                                            652.447
                                                                  4.642
                                                                            4.443
       .ipudrst_r
##
                           4.830
                                     0.007
                                           659.223
                                                        0.000
                                                                  4.830
                                                                            4.672
       .impenv_r
##
       Benev
                           0.000
                                                                  0.000
                                                                            0.000
##
       Unive
                           0.000
                                                                  0.000
                                                                            0.000
##
##
   Variances:
                       Estimate
                                                                 Std.lv Std.all
##
                                  Std.Err z-value
                                                     P(>|z|)
##
       .iphlppl_r
                           0.475
                                     0.010
                                             46.211
                                                        0.000
                                                                  0.475
                                                                            0.491
##
                           0.468
                                     0.009
                                             50.853
                                                        0.000
                                                                  0.468
                                                                            0.575
       .iplylfr_r
##
       .ipeqopt_r
                           0.802
                                     0.014
                                             59.144
                                                        0.000
                                                                  0.802
                                                                            0.695
##
                           0.660
                                     0.012
                                             54.450
                                                        0.000
                                                                  0.660
                                                                            0.605
       .ipudrst_r
##
                           0.771
                                     0.013
                                             60.015
                                                        0.000
                                                                  0.771
                                                                            0.721
       .impenv_r
##
                                     0.012
                                             40.924
                                                        0.000
       Benev
                           0.494
                                                                  1.000
                                                                            1.000
##
       Unive
                           0.352
                                     0.012
                                             29.780
                                                        0.000
                                                                  1.000
                                                                            1.000
##
##
   R-Square:
                       Estimate
##
                           0.509
##
       iphlppl_r
                           0.425
##
       iplylfr_r
##
       ipeqopt_r
                           0.305
##
       ipudrst_r
                           0.395
##
       impenv_r
                           0.279
##
   $FIT
##
##
                              npar
                                                               fmin
##
                            16.000
                                                              0.004
##
                                                                 df
                             chisq
                                                              4.000
##
                           243.650
##
                                                      chisq.scaled
                            pvalue
##
                             0.000
                                                            119.625
##
                         df.scaled
                                                     pvalue.scaled
##
                             4.000
                                                              0.000
##
             chisq.scaling.factor
                                                    baseline.chisq
##
                             2.037
                                                         24987.290
##
                      baseline.df
                                                   baseline.pvalue
##
                            10.000
                                                              0.000
##
            baseline.chisq.scaled
                                               baseline.df.scaled
##
                         12047.652
                                                             10.000
##
          baseline.pvalue.scaled baseline.chisq.scaling.factor
##
                             0.000
##
                               cfi
                                                                tli
##
                             0.990
                                                              0.976
##
                       cfi.scaled
                                                        tli.scaled
##
                             0.990
                                                              0.976
##
                       cfi.robust
                                                        tli.robust
##
                             0.991
                                                              0.976
##
                              logl
                                                 unrestricted.logl
##
                      -183781.903
                                                       -183660.078
##
                               aic
                                                                bic
                       367595.807
##
                                                        367727.377
##
                            ntotal
                                                               bic2
##
                         27533.000
                                                        367676.529
##
                             rmsea
                                                    rmsea.ci.lower
```

```
0.047
                                                           0.042
##
##
                  rmsea.ci.upper
                                                    rmsea.pvalue
                            0.052
##
                                                           0.859
##
                    rmsea.scaled
                                          rmsea.ci.lower.scaled
##
                            0.032
                                                           0.029
##
                                            rmsea.pvalue.scaled
           rmsea.ci.upper.scaled
##
                            0.036
                                                           1.000
##
                    rmsea.robust
                                          rmsea.ci.lower.robust
##
                            0.046
                                                           0.039
##
           rmsea.ci.upper.robust
                                            rmsea.pvalue.robust
                            0.054
##
                             srmr
##
                            0.014
##
##
   $PE
##
            lhs op
                          rhs exo
                                        est
                                                                 z pvalue
## 1
                                0 1.0000000 0.000000000
                                                                        NA
          Benev =~ iphlppl_r
                                                                NA
## 2
          Benev =~ iplylfr r
                                0 0.8375965 0.015742027
                                                          53.20766
                                                                         0
## 3
          Unive =~ ipeqopt_r
                                0 1.0000000 0.000000000
                                                                NΑ
                                                                        NΑ
## 4
          Unive =~ ipudrst_r
                                0 1.1071194 0.022725711
                                                          48.71660
                                                                         0
## 5
          Unive =~ impenv_r
                                0 0.9200455 0.021326905
                                                          43.14013
                                                                         Ω
## 6
          Benev ~~
                       Unive
                                0 0.3745003 0.008507786
                                                          44.01854
      iphlppl_r ~~ iphlppl_r
                                0 0.4754309 0.010288166
                                                          46.21143
                                                                         0
## 7
      iplylfr_r ~~ iplylfr_r
                                0 0.4676350 0.009195884
                                                          50.85264
                                                                         0
## 8
                                0 0.8017269 0.013555415
                                                          59.14440
                                                                         0
## 9
      ipeqopt_r ~~ ipeqopt_r
## 10 ipudrst_r ~~ ipudrst_r
                                0 0.6598969 0.012119241
                                                          54.45035
       impenv_r ~~ impenv_r
                                0 0.7708772 0.012844673
                                                          60.01533
                                                                         0
## 11
          Benev ~~
                                0 0.4936012 0.012061425
                                                                         0
## 12
                       Benev
                                                          40.92395
                                0 0.3518548 0.011815240
                                                                         0
## 13
          Unive ~~
                        Unive
                                                          29.77974
                                0 4.8077075 0.006719411 715.49538
## 14 iphlppl_r ~1
## 15 iplylfr_r ~1
                                0 5.0621424 0.006470338 782.36142
                                                                         0
## 16 ipeqopt_r ~1
                                0 4.7974581 0.008049511 595.99369
                                                                         0
                                0 4.6416159 0.007114163 652.44726
## 17 ipudrst_r ~1
                                                                         0
       impenv_r ~1
                                0 4.8295550 0.007326130 659.22324
                                                                         0
## 18
                                0 0.0000000 0.000000000
## 19
          Benev ~1
                                                                        NA
## 20
          Unive ~1
                                0 0.0000000 0.000000000
                                                                NA
                                                                        NA
## 21 iphlppl r r2 iphlppl r
                                0 0.5093755
                                                                NA
## 22 iplylfr_r r2 iplylfr_r
                                0 0.4254602
                                                      MΔ
                                                                NΔ
                                                                        NΔ
## 23 ipeqopt_r r2 ipeqopt_r
                                0 0.3050107
                                                      NA
                                                                 NA
                                                                        NA
                                0 0.3952391
## 24 ipudrst_r r2 ipudrst_r
                                                      NA
                                                                NΔ
                                                                        NΔ
       impenv r r2 impenv r
                                0 0.2786888
                                                      NΑ
##
         std.lv
                 std.all
                            std.nox
## 1 0.7025676 0.7137055 0.7137055
## 2 0.5884681 0.6522731 0.6522731
     0.5931735 0.5522778 0.5522778
     0.6567138 0.6286805 0.6286805
      0.5457466 0.5279099 0.5279099
     0.8986330 0.8986330 0.8986330
     0.4754309 0.4906245 0.4906245
     0.4676350 0.5745398 0.5745398
      0.8017269 0.6949893 0.6949893
## 10 0.6598969 0.6047609 0.6047609
## 11 0.7708772 0.7213112 0.7213112
## 12 1.0000000 1.0000000 1.0000000
```

```
## 13 1.0000000 1.0000000 1.0000000
## 14 4.8077075 4.8839248 4.8839248
## 15 5.0621424 5.6110083 5.6110083
## 16 4.7974581 4.4667024 4.4667024
## 17 4.6416159 4.4434777 4.4434777
## 18 4.8295550 4.6717095 4.6717095
## 19 0.0000000 0.0000000 0.0000000
## 20 0.0000000 0.0000000 0.0000000
## 21
            NA
## 22
            NA
                      NA
                                NA
## 23
            NA
                      NA
                                NA
## 24
                                NA
            NA
                      NA
## 25
            NA
                      NA
                                NA
##
## [1] "ESS round: 9"
##
          chisq
                       pvalue
                                        cfi
                                                     tli
                                                                 rmsea
##
        367.163
                       0.000
                                      0.985
                                                   0.961
                                                                 0.058
##
           srmr chisq.scaled pvalue.scaled
                                              cfi.robust
                                                            tli.robust
##
                      227.806
                                      0.000
                                                   0.985
                                                                 0.962
          0.017
## rmsea.robust srmr bentler
                        0.017
##
          0.058
                                      epc sepc.lv sepc.all sepc.nox
           lhs op
                        rhs
                                 mi
## 32 iplylfr_r ~~ impenv_r 343.794 0.093 0.093
                                                     0.166
                                                              0.166
## 33 ipeqopt_r ~~ ipudrst_r 135.389 0.079 0.079
                                                     0.107
                                                              0.107
## 23
         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
         Benev =~ ipeqopt_r 86.515 -0.983 -0.660
## 21
                                                    -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 = ^{\circ} 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
                                             5.007
                          4.826
                                   4.666
```



##	lavaan 0.6-5 ended normally after 25	iterations	
##			
##	Estimator	ML	
##	Optimization method	NLMINB	
##	Number of free parameters	16	
##			
##	Number of observations	26814	
##			
##	Model Test User Model:		
##		Standard	Robust
##	Test Statistic	367.163	227.806
##	Degrees of freedom	4	4
##	P-value (Chi-square)	0.000	0.000
##	Scaling correction factor		1.612
##	for the Satorra-Bentler correcti	on	
##			
##	Model Test Baseline Model:		
##			
##	Test statistic	23474.216	11990.070
##	Degrees of freedom	10	10
##	P-value	0.000	0.000
##	Scaling correction factor		1.958
##	•		
##	User Model versus Baseline Model:		
##			
##	Comparative Fit Index (CFI)	0.985	0.981

## ##	Tucker-Lewis In	dex (TLI)			0.961	0.9	53	
##	Robust Comparat	ive Fit Ind	ev (CFI)			0.9	85	
##	Robust Comparative Fit Index (CFI) Robust Tucker-Lewis Index (TLI)					0.9		
##	HODUBU TUCKCI L	CWID INGCA	(111)			0.5	02	
	Loglikelihood and	Informatio	n Criteri	a ·				
##	Logiikciinood and	1111011114010	n orrecri	α.				
##	Loglikelihood u	ser model (HO)	-17	6575 647	-176575.6	47	
##	Loglikelihood u					-176392.0		
##				,	0002.000	1,0002.0		
##	Akaike (AIC)			35	3183.294	353183.2	94	
##	Bayesian (BIC)					353314.4		
##	Sample-size adj	usted Baves	ian (BIC)			353263.5		
##	r		(,					
##	Root Mean Square	Error of Ap	proximati	on:				
##	1	1	•					
##	RMSEA				0.058	0.0	46	
##	90 Percent conf	idence inte	rval - lo	wer	0.053	0.0	42	
##	90 Percent conf	idence inte	rval - up	per	0.063	0.0	50	
##	P-value RMSEA <	= 0.05	_	_	0.003	0.9	61	
##								
##	Robust RMSEA					0.0	58	
##	90 Percent conf	idence inte	rval - lo	wer		0.0	52	
##	90 Percent confidence interval - upper 0.065					65		
##	11							
##	Standardized Root Mean Square Residual:							
##								
##	SRMR				0.017	0.0	17	
##								
	Parameter Estimat	es:						
##								
##	Information Expected							
##	Information sat		model	ъ.	Structured			
##	Standard errors Robust.cluster.sem							
##	Istant Vanishlas.							
##	Latent Variables:	Estimate	C+d Enn	luo	D(> -)	C+4 1	Std.all	
	Benev =~	Estimate	Stu.EII	Z-varue	F(> 4)	Stu.IV	Stu.all	
##	iphlppl_r	1.000				0.672	0.693	
##	iplylfr_r	0.855	0.015	58.342	0.000	0.574	0.650	
##	Unive =~	0.000	0.010	00.042	0.000	0.074	0.000	
##	ipeqopt_r	1.000				0.551	0.522	
##	ipudrst_r	1.141	0.022	51.315	0.000	0.629	0.610	
##	impenv_r	0.971	0.021	47.048	0.000	0.535	0.540	
##								
##	Covariances:							
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all	
##	Benev ~~							
##	Unive	0.344	0.008	44.355	0.000	0.928	0.928	
##								
##	Intercepts:							
##	-	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all	
##	.iphlppl_r	4.848	0.006	768.075	0.000	4.848	5.005	
##	.iplylfr_r	5.105	0.006	890.481	0.000	5.105	5.777	

```
0.007 704.125
                                                        0.000
                                                                  4.826
                                                                            4.569
##
      .ipeqopt_r
                           4.826
                           4.666
                                                        0.000
                                                                            4.521
##
       .ipudrst_r
                                     0.007
                                            694.312
                                                                  4.666
##
                           5.007
                                     0.006
                                           778.267
                                                        0.000
                                                                  5.007
                                                                            5.054
       .impenv_r
##
       Benev
                           0.000
                                                                  0.000
                                                                            0.000
##
       Unive
                           0.000
                                                                  0.000
                                                                            0.000
##
##
   Variances:
                                                                 Std.lv Std.all
##
                       Estimate
                                  Std.Err z-value
                                                      P(>|z|)
##
       .iphlppl_r
                           0.487
                                     0.010
                                             50.255
                                                        0.000
                                                                  0.487
                                                                            0.519
##
                           0.451
                                     0.009
                                             52.311
                                                        0.000
                                                                  0.451
                                                                            0.577
       .iplylfr_r
##
       .ipeqopt_r
                           0.812
                                     0.012
                                             65.039
                                                        0.000
                                                                  0.812
                                                                            0.727
##
                           0.669
                                     0.011
                                             58.960
                                                        0.000
                                                                  0.669
                                                                            0.628
       .ipudrst_r
##
                           0.695
                                     0.011
                                             65.595
                                                        0.000
                                                                  0.695
                                                                            0.708
       .impenv_r
##
                                     0.011
                                             41.020
                                                        0.000
                                                                  1.000
                                                                            1.000
       Benev
                           0.451
##
       Unive
                           0.304
                                     0.010
                                             30.659
                                                        0.000
                                                                  1.000
                                                                            1.000
##
##
   R-Square:
                       Estimate
##
                           0.481
##
       iphlppl_r
                           0.423
##
       iplylfr_r
##
       ipeqopt_r
                           0.273
##
       ipudrst_r
                           0.372
##
                           0.292
       impenv_r
##
   $FIT
##
##
                              npar
                                                               fmin
##
                            16.000
                                                              0.007
##
                                                                 df
                             chisq
                                                              4.000
##
                           367.163
##
                                                      chisq.scaled
                            pvalue
##
                             0.000
                                                            227.806
##
                         df.scaled
                                                     pvalue.scaled
##
                             4.000
                                                              0.000
##
             chisq.scaling.factor
                                                    baseline.chisq
##
                             1.612
                                                          23474.216
                      baseline.df
##
                                                   baseline.pvalue
##
                            10.000
                                                              0.000
##
            baseline.chisq.scaled
                                                baseline.df.scaled
##
                         11990.070
                                                             10.000
##
          baseline.pvalue.scaled baseline.chisq.scaling.factor
##
                             0.000
                                                              1.958
##
                               cfi
                                                                tli
##
                             0.985
                                                              0.961
##
                       cfi.scaled
                                                        tli.scaled
##
                             0.981
                                                              0.953
##
                       cfi.robust
                                                        tli.robust
##
                             0.985
                                                              0.962
##
                              logl
                                                 unrestricted.logl
##
                      -176575.647
                                                       -176392.065
##
                               aic
                                                                bic
##
                       353183.294
                                                        353314.441
##
                            ntotal
                                                               bic2
##
                         26814.000
                                                        353263.593
##
                             rmsea
                                                    rmsea.ci.lower
```

```
0.058
                                                           0.053
##
##
                  rmsea.ci.upper
                                                    rmsea.pvalue
##
                            0.063
                                                           0.003
##
                    rmsea.scaled
                                          rmsea.ci.lower.scaled
##
                            0.046
                                                           0.042
##
                                            rmsea.pvalue.scaled
           rmsea.ci.upper.scaled
##
                            0.050
                                                           0.961
##
                    rmsea.robust
                                          rmsea.ci.lower.robust
##
                            0.058
                                                           0.052
##
           rmsea.ci.upper.robust
                                            rmsea.pvalue.robust
                            0.065
##
                             srmr
##
                            0.017
##
##
   $PE
##
            lhs op
                          rhs exo
                                        est
                                                                 z pvalue
## 1
                                0 1.0000000 0.000000000
                                                                        NA
          Benev =~ iphlppl_r
                                                                NA
## 2
          Benev =~ iplylfr r
                                0 0.8554005 0.014661767
                                                          58.34225
                                                                         0
## 3
          Unive =~ ipeqopt_r
                                0 1.0000000 0.000000000
                                                                NΑ
                                                                        NΑ
## 4
          Unive =~ ipudrst_r
                                0 1.1414073 0.022243268
                                                          51.31473
                                                                         0
## 5
          Unive =~ impenv_r
                                0 0.9708569 0.020635435
                                                          47.04804
                                                                         Ω
## 6
          Benev ~~
                       Unive
                                0 0.3435793 0.007746056
                                                          44.35539
      iphlppl_r ~~ iphlppl_r
                                0 0.4872041 0.009694643
                                                          50.25498
                                                                         0
## 7
      iplylfr_r ~~ iplylfr_r
                                0 0.4509434 0.008620465
                                                          52.31080
                                                                         0
## 8
                                0 0.8116107 0.012478894
                                                          65.03867
                                                                         0
## 9
      ipeqopt_r ~~ ipeqopt_r
## 10 ipudrst_r ~~ ipudrst_r
                                0 0.6690088 0.011346803
                                                          58.96012
       impenv_r ~~ impenv_r
                                0 0.6947964 0.010592142
                                                          65.59546
                                                                         0
## 11
          Benev ~~
                                0 0.4510340 0.010995537
                                                          41.01973
                                                                         0
## 12
                       Benev
                                0 0.3040488 0.009917178
                                                                         0
## 13
          Unive ~~
                        Unive
                                                          30.65880
                                0 4.8478393 0.006311677 768.07474
## 14 iphlppl_r ~1
## 15 iplylfr_r ~1
                                0 5.1052255 0.005733113 890.48052
                                                                         0
## 16 ipeqopt_r ~1
                                0 4.8255051 0.006853192 704.12516
                                                                         0
                                0 4.6657476 0.006719958 694.31198
                                                                         0
## 17 ipudrst_r ~1
       impenv_r ~1
                                0 5.0071978 0.006433781 778.26672
                                                                         0
## 18
                                0 0.0000000 0.000000000
## 19
          Benev ~1
                                                                        NA
## 20
          Unive ~1
                                0 0.0000000 0.000000000
                                                                NA
                                                                        NA
## 21 iphlppl r r2 iphlppl r
                                0 0.4807245
                                                                NA
                                                                        NA
## 22 iplylfr_r r2 iplylfr_r
                                0 0.4225851
                                                      MΔ
                                                                NΔ
                                                                        NΔ
## 23 ipeqopt_r r2 ipeqopt_r
                                0 0.2725283
                                                      NA
                                                                 NA
                                                                        NA
## 24 ipudrst_r r2 ipudrst_r
                                                      NA
                                                                NΔ
                                                                        NΔ
                                0 0.3718975
       impenv r r2 impenv r
                                0 0.2920221
                                                      NΑ
##
         std.lv
                 std.all
                             std.nox
## 1 0.6715906 0.6933430 0.6933430
  2 0.5744790 0.6500655 0.6500655
     0.5514062 0.5220425 0.5220425
     0.6293791 0.6098340 0.6098340
      0.5353365 0.5403907 0.5403907
     0.9277923 0.9277923 0.9277923
     0.4872041 0.5192755 0.5192755
     0.4509434 0.5774149 0.5774149
      0.8116107 0.7274717 0.7274717
## 10 0.6690088 0.6281025 0.6281025
## 11 0.6947964 0.7079779 0.7079779
## 12 1.0000000 1.0000000 1.0000000
```

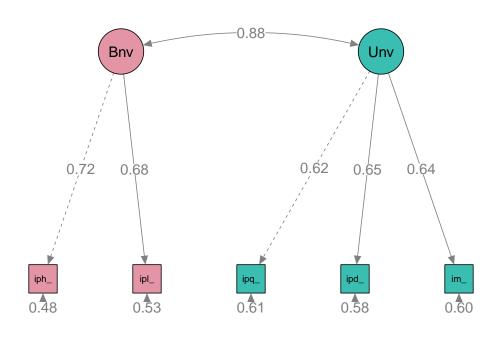
```
## 13 1.0000000 1.0000000 1.0000000
## 14 4.8478393 5.0048572 5.0048572
## 15 5.1052255 5.7769405 5.7769405
## 16 4.8255051 4.5685349 4.5685349
## 17 4.6657476 4.5208549 4.5208549
## 18 5.0071978 5.0544719 5.0544719
## 19 0.0000000 0.0000000 0.0000000
## 20 0.0000000 0.0000000 0.0000000
## 21
             NA
                       NA
## 22
                                 NA
             NA
                       NA
## 23
             NA
                       NA
                                 NA
## 24
                                 NA
             NA
                       NA
## 25
             NA
                       NA
                                 NA
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(model13, 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,
                                                  #residual variances and variances of exogeneous laten
                            auto.var=TRUE,
                                                 #covariances of exogeneous latent variables are inclu
                            auto.cov.lv.x=TRUE,
                            estimator="MLM",
                            group = "cntry",
                            group.label = countries
                                                  #vector for multigroup analysis specify the pattern o
                            #group.equal = ...
  survey.conffit3 <- lavaan.survey(lavaan.fit=lavaan.conffit3,survey.design=survey.design)</pre>
  # mi1 <- modindices(survey.conffit3, sort = T, free.remove = F)
  # mi1[mi1$op == "=~",]
  # 2. METRIC EQUIVALENCE: set the factor loadings equal across groups
  lavaan.metrfit3 <- lavaan(model13, data=ds_filtrada,</pre>
                          auto.fix.first=TRUE, #factor loading of first indicator set to 1
                          int.ov.free=TRUE,
                                               #intercepts not fixed to 0
                          meanstructure=TRUE, #the means of the observed variables enter the model, n
                                               #residual variances and variances of exogeneous latent
                          auto.var=TRUE,
                          auto.cov.lv.x=TRUE, #covariances of exogeneous latent variables are include
                          estimator="MLM",
                          group = "cntry",
                          group.label = countries,
                          group.equal=c("loadings") #vector for multigroup analysis specify the pattern
  survey.metrfit3 <- lavaan.survey(lavaan.fit=lavaan.metrfit3,survey.design=survey.design)</pre>
  # mi2 <- modindices(survey.metrfit3, sort = T, free.remove = F)
  # loadings <- mi2[mi2$op=="=~",]
  # loadings[order(loadings$mi,decreasing=TRUE),]
  # 3. SCALAR EQUIVALENCE: set the factor loadings and the intercepts equal across groups
```

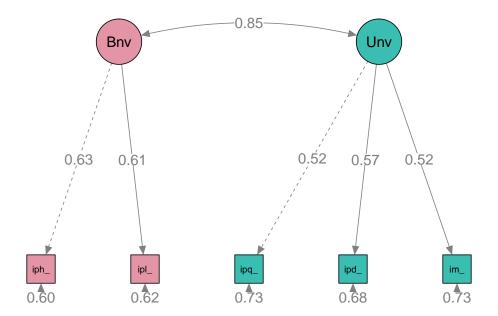
```
lavaan.scalfit3 <- lavaan(model13, data=ds_filtrada,</pre>
                        auto.fix.first=TRUE, #factor loading of first indicator set to 1
                        int.ov.free=TRUE,
                                               #intercepts not fixed to 0
                        meanstructure=TRUE, #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"),group.partial= c("iplylfr_r ~1","ipeqo
survey.scalfit3 <- lavaan.survey(lavaan.fit=lavaan.scalfit3,survey.design=survey.design)</pre>
# mi3 <- modindices(survey.scalfit3, sort = T, free.remove = F)</pre>
# mi3[mi3$op == "~1",]
# 4. check whether factor variances are equal across groups
lavaan.varianfit3 <- lavaan(model13, data=ds_filtrada,</pre>
                        auto.fix.first=TRUE, #factor loading of first indicator set to 1
                        int.ov.free=TRUE,
                                               #intercepts not fixed to 0
                        meanstructure=TRUE, #the means of the observed variables enter the model, n
                        auto.var=TRUE,
                                             #residual variances and variances of exogeneous latent
                        auto.cov.lv.x=TRUE, #covariances of exogeneous latent variables are include
                        estimator="MLM",
                        group = "cntry",
                        group.label = countries,
                        group.equal=c("loadings","intercepts","lv.variances"),
                        group.partial= c("iplylfr_r ~1","ipeqopt_r~1"))
survey.varianfit3 <- lavaan.survey(lavaan.fit=lavaan.varianfit3,survey.design=survey.design)</pre>
# mi3 <- modindices(survey.varianfit3, sort = T, free.remove = F)</pre>
# mi3[mi3$op == "~~",]
invar <- data.frame(round(rbind(Configural = fitMeasures(survey.conffit3, c("cfi", "rmsea", "cfi.robus"
                                     Metric = fitMeasures(survey.metrfit3, c("cfi", "rmsea", "cfi.robus")
                                     Scalar = fitMeasures(survey.scalfit3, c("cfi", "rmsea", "cfi.robus
                                     Strict = fitMeasures(survey.varianfit3, c("cfi", "rmsea", "cfi.rob")
dif <- invar %>%
    mutate_all(funs(abs(. - lag(.))) )
colnames(dif) <- c("delta.cfi", "delta.rmsea", "delta.Robcfi", "delta.Scalrmsea")</pre>
print(paste("ESS round: ", r))
print(cbind(invar,dif))
invaraut <- measurementInvariance(model = model13,</pre>
                      data=ds_filtrada,
                      group = "cntry", group.label = countries,
                      strict = TRUE,group.partial = c("iplylfr_r ~1") )
# countries1 <- c("Belgium", "Germany", "Ireland", "United Kingdom", "Norway")
# invaraut1 <- measurementInvariance(model = model3,</pre>
#
                        data=ds\_filtrada,
#
                        group = "cntry", group.label = countries1,
#
                        strict = TRUE, group.partial = c("iplylfr_r ~1") )
```

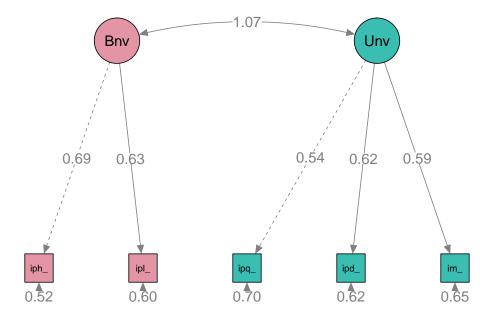
```
# countries2 <- c("Czechia", "Austria", "Italy", "Slovenia", "Poland")
  # invaraut2 <- measurementInvariance(model = model3,</pre>
  #
                           data=ds\_filtrada,
  #
                           group = "cntry", group.label = countries2,
  #
                           strict = TRUE, group.partial = c("iplylfr_r ~1") )
  # countries3 <- c("Netherlands", "France" )</pre>
  # invaraut3 <- measurementInvariance(model = model3,</pre>
                           data=ds filtrada,
                           group = "cntry", group.label = countries3,
  #
                           strict = TRUE, group.partial = c("iplylfr_r ~1") )
  # countries4 <- c("Estonia", "Switzerland")</pre>
  # invaraut4 <- measurementInvariance(model = model3,</pre>
                           data=ds_filtrada,
  #
                           group = "cntry", group.label = countries4,
                           strict = TRUE, group.partial = c("ipeqopt_r ~1") )
  results <- partialInvariance(fit = invaraut, type = "strict")
  results $results
  assign(paste0("survey.scalfit3r",r),survey.scalfit3)
  invisible(semPaths(survey.scalfit3, "model", "std", "lisrel", edge.label.cex = 1.2, intercepts = FALSE,
                     panelGroups = FALSE, ask = FALSE, groups = "latent", pastel = TRUE, exoCov = TRUE
}
## [1] "ESS round: 8"
##
                cfi rmsea cfi.robust rmsea.scaled delta.cfi delta.rmsea
                              0.983
                                             0.046
## Configural 0.982 0.062
                                                          NA
## Metric
              0.974 0.057
                               0.976
                                             0.043
                                                       0.008
                                                                    0.005
              0.940 0.081
## Scalar
                               0.942
                                             0.064
                                                       0.034
                                                                    0.024
## Strict
              0.905 0.092
                                0.907
                                             0.074
                                                       0.035
                                                                    0.011
##
              delta.Robcfi delta.Scalrmsea
## Configural
                        NA
                     0.007
                                      0.003
## Metric
                     0.034
                                      0.021
## Scalar
## Strict
                     0.035
                                      0.010
## Measurement invariance models:
## Model 1 : fit.configural
## Model 2 : fit.loadings
## Model 3 : fit.intercepts
## Model 4 : fit.residuals
## Model 5 : fit.means
##
## Chi-Squared Difference Test
##
##
                         AIC
                                       Chisq Chisq diff Df diff Pr(>Chisq)
                                 BIC
## fit.configural 56 356363 358205 498.17
## fit.loadings
                   95 356534 358055 747.72
                                                 249.55
                                                              39 < 2.2e-16 ***
## fit.intercepts 121 357932 359239 2197.21
                                                1449.49
                                                              26 < 2.2e-16 ***
```

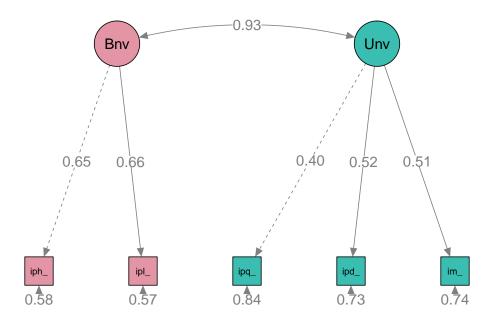
```
## fit.residuals 186 360084 360857 4479.68
                                              2282.47
                                                          65 < 2.2e-16 ***
## fit.means
                 212 362146 362705 6593.38
                                              2113.70
                                                          26 < 2.2e-16 ***
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## Fit measures:
##
##
                   cfi rmsea cfi.delta rmsea.delta
## fit.configural 0.981 0.063
                                   NA
                                                NA
## fit.loadings 0.972 0.059
                                 0.009
                                             0.004
## fit.intercepts 0.912 0.093
                                 0.060
                                             0.034
## fit.residuals 0.818 0.108
                                 0.094
                                             0.015
## fit.means
                 0.730 0.124
                                 0.088
                                             0.015
```

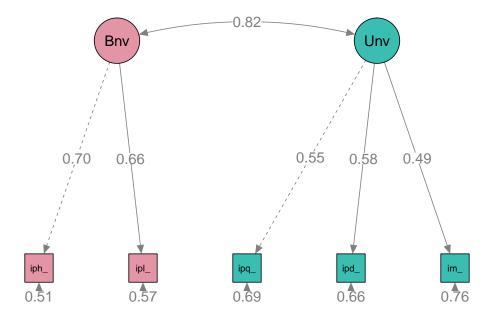
1

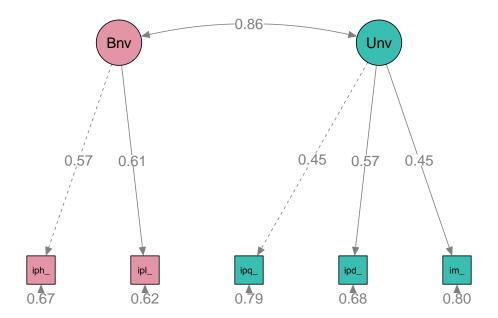


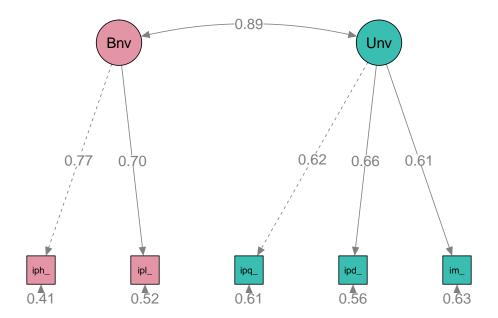


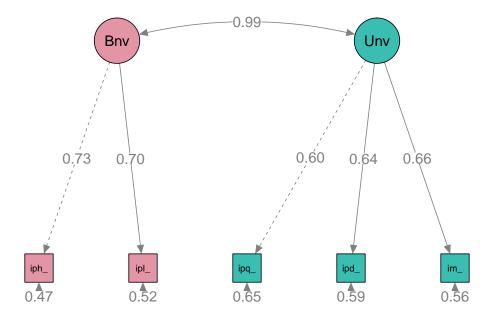


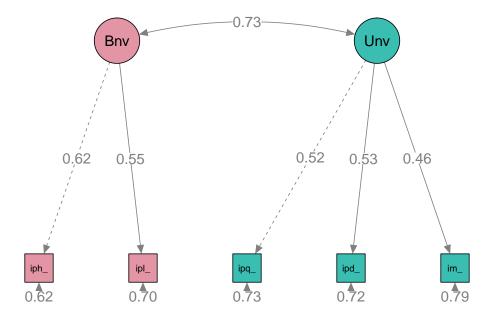


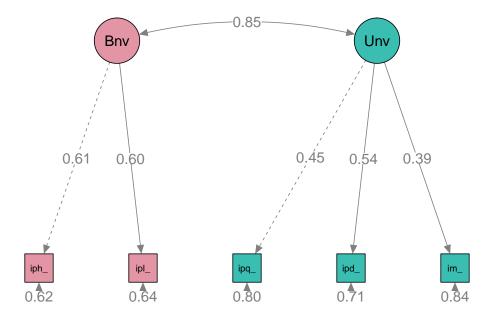


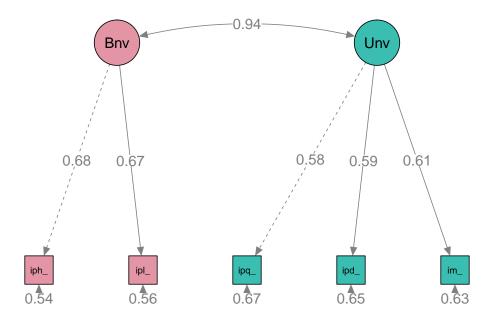


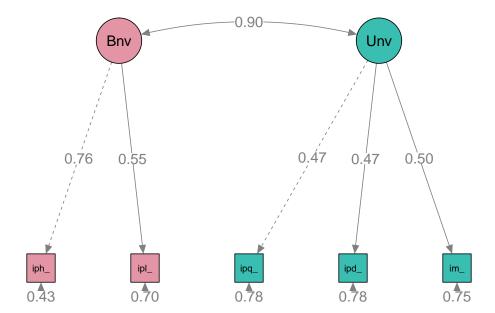


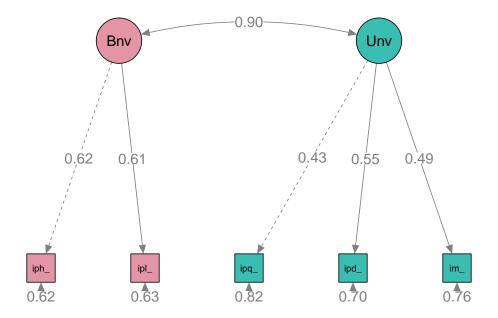


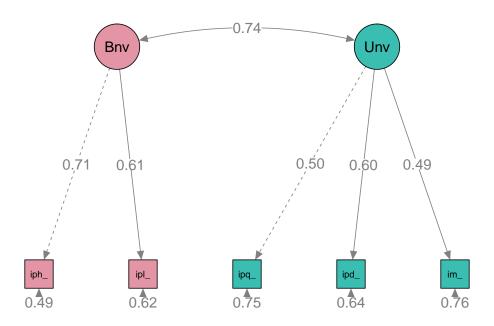








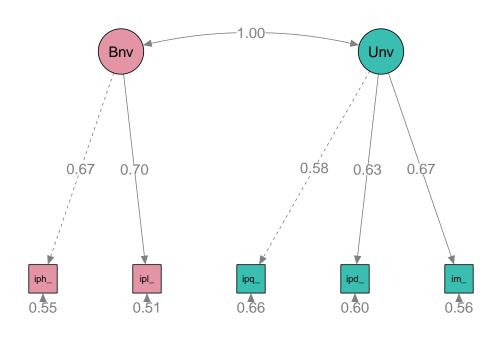


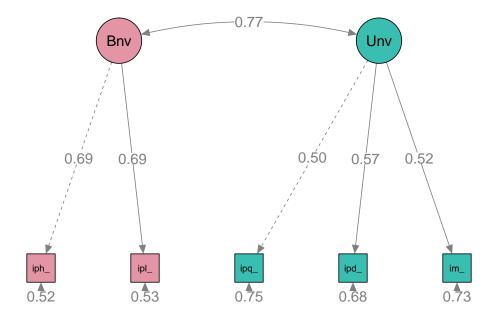


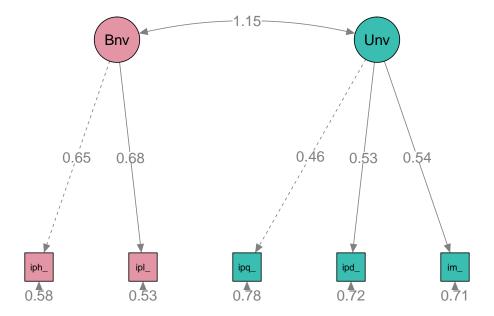
```
## [1] "ESS round: 9"
                cfi rmsea cfi.robust rmsea.scaled delta.cfi delta.rmsea
## Configural 0.979 0.066
                               0.980
                                             0.052
                                                          NA
## Metric
              0.968 0.063
                                0.970
                                             0.051
                                                       0.011
                                                                    0.003
## Scalar
                                0.941
                                             0.067
                                                       0.028
                                                                    0.018
              0.940 0.081
## Strict
              0.908 0.090
                                0.910
                                             0.074
                                                       0.032
                                                                    0.009
##
              delta.Robcfi delta.Scalrmsea
## Configural
                        NA
                                         NA
                     0.010
                                      0.001
## Metric
                     0.029
## Scalar
                                      0.016
## Strict
                     0.031
                                      0.007
##
## Measurement invariance models:
##
## Model 1 : fit.configural
## Model 2 : fit.loadings
## Model 3 : fit.intercepts
## Model 4 : fit.residuals
## Model 5 : fit.means
##
## Chi-Squared Difference Test
##
                                       Chisq Chisq diff Df diff Pr(>Chisq)
                   Df
                         AIC
                                 BIC
## fit.configural 56 343191 345027
                                      482.80
## fit.loadings
                   95 343408 344925
                                     778.24
                                                 295.45
                                                              39 < 2.2e-16 ***
## fit.intercepts 121 344695 345998 2116.67
                                                1338.42
                                                              26 < 2.2e-16 ***
```

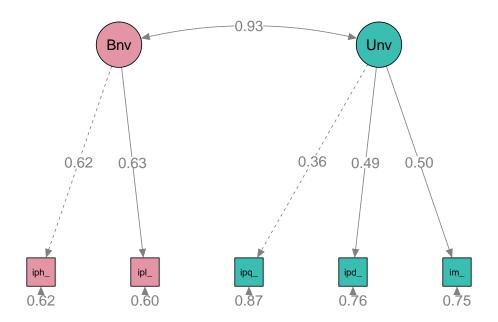
```
## fit.residuals 186 346604 347375 4156.32
                                              2039.65
                                                           65 < 2.2e-16 ***
## fit.means
                 212 348847 349404 6451.04
                                              2294.72
                                                           26 < 2.2e-16 ***
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## Fit measures:
##
##
                   cfi rmsea cfi.delta rmsea.delta
## fit.configural 0.981 0.063
                                    NA
                                                NA
## fit.loadings 0.969 0.061
                                 0.012
                                             0.002
## fit.intercepts 0.910 0.093
                                 0.059
                                             0.032
## fit.residuals 0.820 0.106
                                 0.089
                                             0.013
## fit.means
                 0.718 0.124
                                 0.103
                                             0.018
```

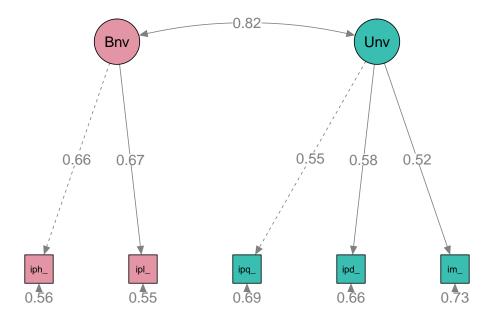
1

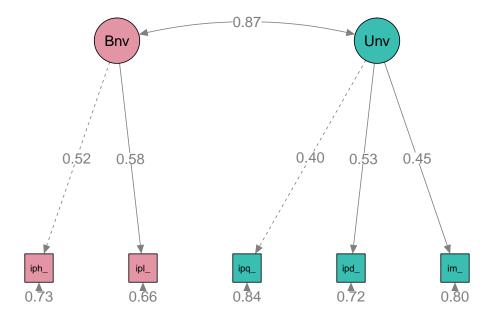


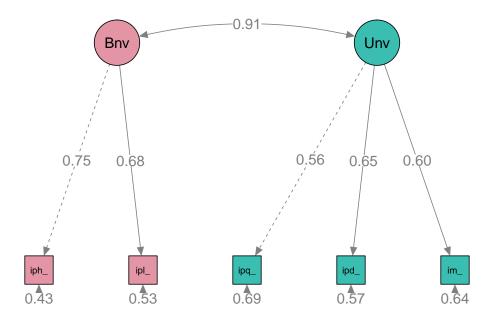


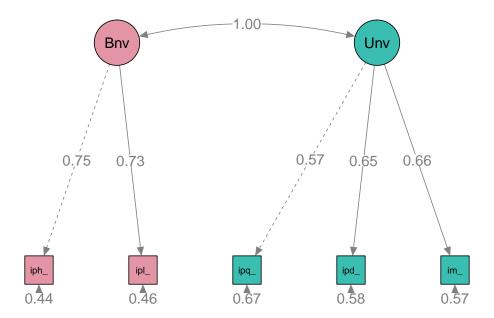


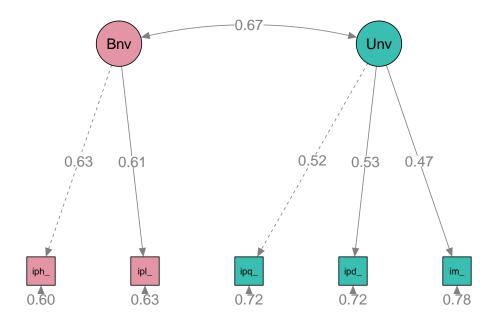


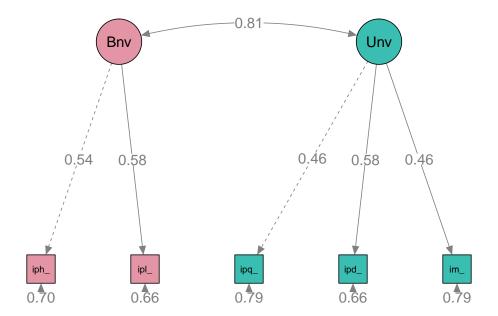


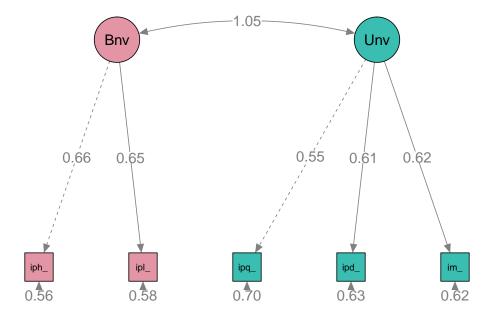


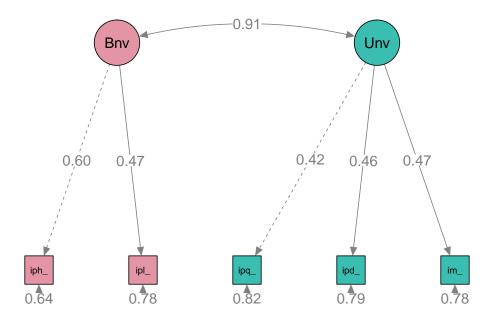


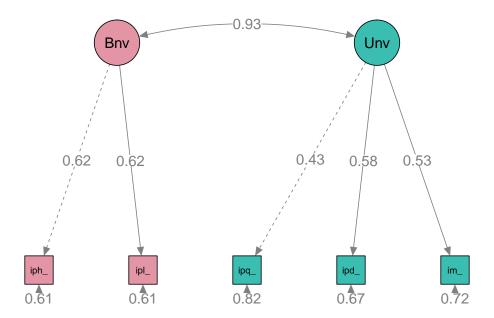


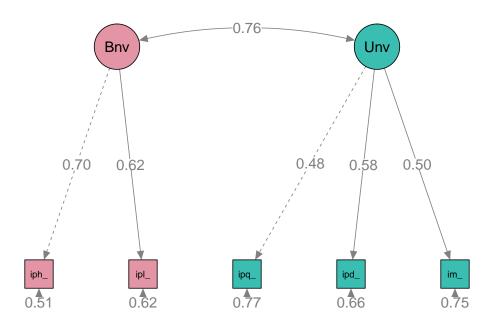












Model SEM

```
semmodel21 <-'
Benev =~ iphlppl_r + iplylfr_r
Unive =~ ipeqopt_r + ipudrst_r + impenv_r
STrasc =~ Unive + Benev
STrasc ~ agea + gndrD + eisced2 + eisced3 + domicil2 + domicil3 + domicil4 + HDI
Unive ~~ 0.2*Unive
Benev ~~ 0.2*Benev
for (r in c(8,9)) {
  ds_filtrada2 <- ds_filtradaAll %>% filter(essround == r)
  survey.design2 <- svydesign(ids=~idno, prob=~dweight, data=ds_filtrada2)</pre>
  lavaan.semfit <- lavaan(semmodel21, 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
                                                 #residual variances and variances of exogeneous latent
                          auto.var=TRUE,
                          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>
```

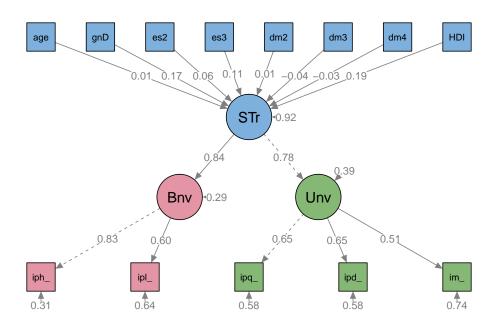
```
assign(paste0("survey.semfit",r),survey.semfit)
  print(paste("ESS round: ", r))
  print(fitMeasures(survey.semfit, c("chisq","pvalue","cfi", "tli","rmsea", "srmr",
  print(modindices(survey.semfit,sort=T)[1:10,])
  invisible(semPaths(survey.semfit, "model", "std", "lisrel", edge.label.cex = 0.8, intercepts = FALSE, la
                     groups = "latent", pastel = TRUE, exoCov = FALSE, optimizeLatRes = TRUE))
  print(summary(survey.semfit, standardized=T, rsquare=T, fit.measures=T))
}
  [1] "ESS round: 8"
##
                                         cfi
           chisq
                        pvalue
                                                        tli
                                                                    rmsea
##
        3831.896
                         0.000
                                       0.866
                                                      0.819
                                                                    0.061
##
                 chisq.scaled pvalue.scaled
                                                 cfi.robust
                                                               tli.robust
            srmr
##
           0.031
                      1344.495
                                       0.000
                                                      0.868
                                                                    0.821
##
  rmsea.robust
                 srmr_bentler
##
           0.061
                         0.031
##
            lhs op
                         rhs
                                         epc sepc.lv sepc.all sepc.nox
## 80
                                                         0.459
          Unive =~ iplylfr_r 1165.808 0.577
                                               0.414
                                                                  0.459
                                               0.947
## 96
                       Unive 1124.187 0.189
                                                         0.947
                                                                  0.947
          Benev ~~
## 82
         STrasc =~ iplylfr_r 1098.172 1.739
                                               0.977
                                                        1.083
                                                                  1.083
## 81
         STrasc =~ iphlppl_r 1098.156 -2.685
                                              -1.509
                                                        -1.510
                                                                 -1.510
## 1
          Benev =~ iphlppl_r 1098.145 -1.076
                                              -0.895
                                                        -0.895
                                                                 -0.895
                       Benev 1098.135 -0.431
                                              -0.289
                                                        -0.289
                                                                 -0.289
## 17
          Benev ~~
                                                        -0.695
## 86 iphlppl_r ~~ iplylfr_r 1098.135 -0.279
                                              -0.279
                                                                 -0.695
                                              -0.388
                                                        -0.388
## 16
         Unive ~~
                       Unive 834.631 -0.243
                                                                 -0.388
## 3
          Unive = \sim ipeqopt_r 834.629 -0.608 -0.437
                                                        -0.393
                                                                 -0.393
```

-0.469

-0.469

STrasc =~ ipeqopt_r 832.442 -0.926 -0.521

83



## ##	lavaan 0.6-5 ended normally aft	er 88 iterations	
## ##	Estimator Optimization method	ML NLMINB	
##	Number of free parameters	23	
##	Number of observations	27310	
##	W 1.2 m . W 1.2		
##	Model Test User Model:	Standard	Robust
##	Test Statistic	3831.896	1344.495
##	Degrees of freedom	37	٠.
##	1	0.000	0.000
##	0		2.850
##	for the Satorra-Bentler cor	rection	
## ## ##	Model Test Baseline Model:		
##	Test statistic	28331.529	10978.076
##	Degrees of freedom	50	50
##	P-value	0.000	0.000
##	Scaling correction factor		2.581
## ## ##	User Model versus Baseline Mode	1:	
##	Comparative Fit Index (CFI)	0.866	0.880

## ##	Tucker-Lewis In	dex (TLI)			0.819	0.8	38	
##	Robust Comparat			0.8	68			
##	1							
##								
	Loglikelihood and	Informatio	n Criteri	a·				
##	nogrinorinood and	IIIIOIMGUIO	11 0110011	u .				
##	Loglikelihood u	ser model (HO)	-32	2799 479	-322799.4	79	
##	Loglikelihood u					-320883.5		
##	nogrinorinood d	micbulicuca	model (II	.1) 02	0000.001	020000.0	01	
##	Akaike (AIC)			64	5644 957	645644.9	57	
##	Bayesian (BIC)					645833.9		
##	Sample-size adj	usted Baves	ian (RTC)			645760.8		
##	bumpic bize daj	abuca bayes	Idii (DIO)	01	0100.000	010100.0		
	Root Mean Square	Error of An	nrovimati	on·				
##	noot noun bquaro	LIIOI OI MP	pronimaor	011.				
##	RMSEA				0.061	0.0	36	
##	90 Percent conf	idence inte	rval - lo	wer	0.060			
##	90 Percent conf				0.063			
##	P-value RMSEA <		r	r	0.000	1.0		
##								
##	Robust RMSEA					0.0	61	
##	90 Percent conf	idence inte	rval - lo	wer		0.0		
##	90 Percent conf	idence inte	rval - up	per		0.0	64	
##			1	•				
##	Standardized Root	Mean Squar	e Residua	1:				
##		•						
##	SRMR				0.031	0.0	31	
##								
##	Parameter Estimat	es:						
##								
##	Information				Expe	ected		
##	Information sat	urated (h1)	model		Structured			
##	Standard errors			Robus	t.cluster	.sem		
##								
##	Latent Variables:							
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all	
##	Benev =~							
##	iphlppl_r	1.000				0.831	0.832	
##	iplylfr_r	0.648	0.013	48.784	0.000	0.538	0.597	
##	Unive =~	4 000				0.740	0.047	
##	ipeqopt_r	1.000	0 047	E4 404	0 000	0.718	0.647	
##	ipudrst_r	0.948	0.017	54.191	0.000	0.681	0.650	
##	impenv_r	0.735	0.016	45.581	0.000	0.528	0.510	
##	STrasc =~	1 000				0.700	0.702	
##	Unive	1.000	0 005	25 504	0 000	0.783	0.783	
##	Benev	1.247	0.035	35.594	0.000	0.843	0.843	
##	Pogrogaiona:							
##	Regressions:	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all	
##	STrasc ~	recillace	Stu.EII	Z value	r (/ 4)	buu.1V	buu.all	
##	agea	0.000	0.000	0.656	0.512	0.000	0.006	
##	gndrD	0.191	0.010	18.342	0.000	0.340	0.170	
##	eisced2	0.131	0.010	5.953	0.000	0.124	0.170	
ii m	CIDCOUZ	0.010	0.012	0.000	0.000	V.12-T	0.001	

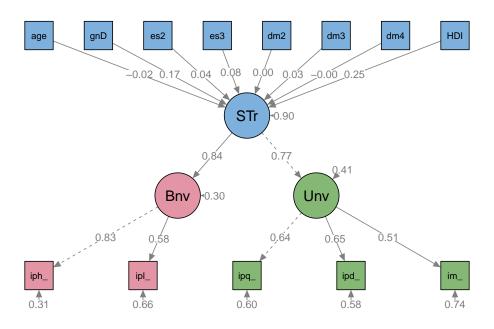
##							
	eisced3	0.142	0.012	11.844	0.000	0.252	0.106
##	domicil2	0.017	0.011	1.504	0.132	0.030	0.014
##	domicil3	-0.074	0.017	-4.404	0.000	-0.132	-0.041
##	domicil4	-0.052	0.016	-3.317	0.001	-0.093	-0.035
##	HDI	4.083	0.199	20.564	0.000	7.265	0.192
##							
##	Intercepts:						
##	-	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.iphlppl_r	-0.007	0.200	-0.035	0.972	-0.007	-0.007
##	.iplylfr_r	1.946	0.137	14.164	0.000	1.946	2.157
##	.ipeqopt_r	0.938	0.181	5.174	0.000	0.938	0.846
##	.ipudrst_r	0.982	0.163	6.042	0.000	0.982	0.937
##	.impenv_r	1.993	0.125	15.925	0.000	1.993	1.925
##	.Benev	0.000				0.000	0.000
##	.Unive	0.000				0.000	0.000
##	.STrasc	0.000				0.000	0.000
##							
	Variances:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.Unive	0.200			- (1–1)	0.388	0.388
##	.Benev	0.200				0.289	0.289
##	.iphlppl_r	0.308	0.012	25.467	0.000	0.308	0.308
##	.iplylfr_r	0.524	0.009	57.740	0.000	0.524	0.644
##	.ipeqopt_r	0.715	0.014	50.422	0.000	0.715	0.581
##	.ipudrst_r	0.635	0.013	50.552	0.000	0.635	0.578
##	.impenv_r	0.793	0.013	62.318	0.000	0.793	0.740
##	.STrasc	0.291	0.012	24.475	0.000	0.923	0.923
##	·birabc	0.201	0.012	21.110	0.000	0.020	0.020
	R-Square:						
##	n bquaro.	Estimate					
## ##	_	Estimate					
##	Unive	0.612					
## ##	Unive Benev	0.612 0.711					
## ## ##	Unive Benev iphlppl_r	0.612 0.711 0.692					
## ## ## ##	Unive Benev iphlppl_r iplylfr_r	0.612 0.711 0.692 0.356					
## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r	0.612 0.711 0.692 0.356 0.419					
## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r	0.612 0.711 0.692 0.356 0.419 0.422					
## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r	0.612 0.711 0.692 0.356 0.419 0.422 0.260					
## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r	0.612 0.711 0.692 0.356 0.419 0.422					
## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r STrasc	0.612 0.711 0.692 0.356 0.419 0.422 0.260					
## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r	0.612 0.711 0.692 0.356 0.419 0.422 0.260 0.077	r			fmin	
## ## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r STrasc	0.612 0.711 0.692 0.356 0.419 0.422 0.260 0.077				fmin 070	
## ## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r STrasc	0.612 0.711 0.692 0.356 0.419 0.422 0.260 0.077	0			.070	
## ## ## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r STrasc	0.612 0.711 0.692 0.356 0.419 0.422 0.260 0.077	0 q		0	.070 df	
## ## ## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r STrasc	0.612 0.711 0.692 0.356 0.419 0.422 0.260 0.077 npa 23.00 chis 3831.89	0 q 6		0 37	.070 df .000	
## ## ## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r STrasc	0.612 0.711 0.692 0.356 0.419 0.422 0.260 0.077 npa 23.00 chis 3831.89 pvalu	0 q 6 e		0 37 chisq.sc	.070 df .000 aled	
## ## ## ## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r STrasc	0.612 0.711 0.692 0.356 0.419 0.422 0.260 0.077 npa 23.00 chis 3831.89 pvalu 0.00	0 q 6 e 0		0 37 chisq.sc 1344	.070 df .000 aled .495	
## ## ## ## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r STrasc	0.612 0.711 0.692 0.356 0.419 0.422 0.260 0.077 npa 23.00 chis 3831.89 pvalu 0.00 df.scale	0 q 6 e 0 d		0 37 chisq.sc 1344 pvalue.sc	.070 df .000 aled .495 aled	
## ## ## ## ## ## ## ## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r STrasc \$FIT	0.612 0.711 0.692 0.356 0.419 0.422 0.260 0.077 npa 23.00 chis 3831.89 pvalu 0.00 df.scale 37.00	0 q 6 e 0 d		0 37 chisq.sc 1344 pvalue.sc	.070 df .000 aled .495 aled .000	
## ## ## ## ## ## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r STrasc \$FIT	0.612 0.711 0.692 0.356 0.419 0.422 0.260 0.077 npa 23.00 chis 3831.89 pvalu 0.00 df.scale 37.00 caling.facto	0 q 6 e 0 d 0		0 37 chisq.sc 1344 pvalue.sc 0 aseline.c	.070 df .000 aled .495 aled .000 hisq	
## ## ## ## ## ## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r STrasc \$FIT	0.612 0.711 0.692 0.356 0.419 0.422 0.260 0.077 npa 23.00 chis 3831.89 pvalu 0.00 df.scale 37.00 caling.facto	0 q 6 e 0 d 0 r	b	0 37 chisq.sc 1344 pvalue.sc 0 aseline.c	.070 df .000 aled .495 aled .000 hisq .529	
## ## ## ## ## ## ## ## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r STrasc \$FIT	0.612 0.711 0.692 0.356 0.419 0.422 0.260 0.077 npa 23.00 chis 3831.89 pvalu 0.00 df.scale 37.00 caling.facto 2.85 baseline.d	0 q 6 e 0 d 0 r 0	b	37 chisq.sc 1344 pvalue.sc 0 aseline.cc 28331 seline.pv	.070 df .000 aled .495 aled .000 hisq .529 alue	
######################################	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r STrasc \$FIT	0.612 0.711 0.692 0.356 0.419 0.422 0.260 0.077 npa 23.00 chis 3831.89 pvalu 0.00 df.scale 37.00 caling.facto 2.85 baseline.d	0 q 6 e 0 d 0 r 0 f	b	0 37 chisq.sc 1344 pvalue.sc 0 aseline.c 28331 seline.pv	.070 df .000 aled .495 aled .000 hisq .529 alue .000	
## ## ## ## ## ## ## ## ## ## ## ## ##	Unive Benev iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r STrasc \$FIT	0.612 0.711 0.692 0.356 0.419 0.422 0.260 0.077 npa 23.00 chis 3831.89 pvalu 0.00 df.scale 37.00 caling.facto 2.85 baseline.d	0 q 6 e 0 d 0 r 0 f 0 d	b	0 37 chisq.sc 1344 pvalue.sc 0 aseline.c 28331 seline.pv 0 ine.df.sc	.070 df .000 aled .495 aled .000 hisq .529 alue .000	

```
##
          baseline.pvalue.scaled baseline.chisq.scaling.factor
##
                            0.000
                                                           2.581
##
                              cfi
                                                             tli
                            0.866
                                                           0.819
##
##
                       cfi.scaled
                                                      tli.scaled
                            0.880
                                                           0.838
##
                      cfi.robust
                                                      tli.robust
##
##
                            0.868
                                                           0.821
##
                             logl
                                               unrestricted.log1
                      -322799.479
                                                     -320883.531
##
##
                              aic
                                                             bic
                                                      645833.902
                      645644.957
##
                           ntotal
##
                                                            bic2
##
                        27310.000
                                                      645760.809
##
                            rmsea
                                                  rmsea.ci.lower
##
                            0.061
                                                           0.060
##
                  rmsea.ci.upper
                                                    rmsea.pvalue
##
                            0.063
                                                           0.000
##
                    rmsea.scaled
                                          rmsea.ci.lower.scaled
##
                            0.036
                                                           0.035
##
           rmsea.ci.upper.scaled
                                             rmsea.pvalue.scaled
##
                            0.037
                                                           1.000
                     rmsea.robust
##
                                          rmsea.ci.lower.robust
                            0.061
##
                                                           0.058
##
           rmsea.ci.upper.robust
                                             rmsea.pvalue.robust
##
                            0.064
                                                              NA
##
                             srmr
                            0.031
##
##
   $PE
##
##
            lhs op
                                                                        z
                                   1.000000e+00 0.000000000
## 1
          Benev =~ iphlppl_r
                                0
                                                                       NA
## 2
          Benev =~ iplylfr_r
                                   6.476682e-01 0.013276124 48.78443471
## 3
                                   1.000000e+00 0.000000000
          Unive =~ ipeqopt_r
                                0
                                                                       NA
## 4
          Unive =~ ipudrst_r
                                   9.480916e-01 0.017495368 54.19100896
## 5
                                   7.349787e-01 0.016124523 45.58141976
          Unive =~
                    impenv_r
## 6
         STrasc =~
                        Unive
                                  1.000000e+00 0.000000000
## 7
         STrasc =~
                        Benev
                                  1.247058e+00 0.035035338 35.59428838
## 8
         STrasc
                                0 1.749558e-04 0.000266728
                                                             0.65593330
                         agea
## 9
                                  1.911547e-01 0.010421720 18.34195744
         STrasc
                        gndrD
## 10
                                   6.965654e-02 0.011700643 5.95322336
         STrasc
                      eisced2
                                  1.419086e-01 0.011981097 11.84437254
## 11
         STrasc
                      eisced3
                                   1.671623e-02 0.011111154
                                                             1.50445443
## 12
         STrasc
                    domicil2
## 13
                                0 -7.396456e-02 0.016794454 -4.40410665
         STrasc
                    domicil3
## 14
         STrasc
                     domicil4
                                0 -5.227920e-02 0.015761332 -3.31692806
                                0 4.083276e+00 0.198567823 20.56363539
## 15
         STrasc
                          HDI
                                  2.000000e-01 0.000000000
## 16
          Unive ~~
                        Unive
                                                                       NA
          Benev ~~
                                  2.000000e-01 0.000000000
                                                                       NA
## 17
                        Benev
## 18 iphlppl_r ~~ iphlppl_r
                                  3.075509e-01 0.012076230 25.46745808
                                  5.237545e-01 0.009070931 57.73988826
      iplylfr_r ~~ iplylfr_r
## 20 ipeqopt_r ~~ ipeqopt_r
                                0
                                  7.150089e-01 0.014180504 50.42196858
                                  6.351541e-01 0.012564269 50.55241269
## 21 ipudrst_r ~~ ipudrst_r
## 22
       impenv_r ~~ impenv_r
                                0 7.933726e-01 0.012731035 62.31800120
         STrasc ~~
                                0 2.914627e-01 0.011908702 24.47476537
## 23
                      STrasc
```

```
## 24
                                    3.427142e+02 0.000000000
                                                                         NA
           agea ~~
                          agea
##
  25
                        gndrD
                                    3.514386e-01 0.000000000
                                                                         NΑ
           agea ~~
                                 1
           agea ~~
                                 1 -8.641592e-01 0.000000000
##
   26
                      eisced2
                                                                         NA
##
  27
                                 1 -5.996190e-01 0.000000000
           agea ~~
                      eisced3
                                                                         NΑ
##
   28
           agea ~~
                     domicil2
                                 1 -1.137346e-01 0.000000000
                                                                         NΑ
   29
##
                                    1.829517e-02 0.000000000
                                                                         NΑ
           agea ~~
                     domicil3
   30
           agea ~~
##
                     domicil4
                                 1 -3.808200e-01 0.000000000
                                                                         NA
##
  31
           agea ~~
                           HDI
                                 1
                                    1.074974e-02 0.000000000
                                                                         NA
                        gndrD
##
   32
           gndrD ~~
                                 1
                                    2.495591e-01 0.000000000
                                                                         NA
##
   33
           gndrD ~~
                      eisced2
                                    1.601448e-03 0.000000000
                                                                         NA
##
   34
          gndrD ~~
                      eisced3
                                    1.828659e-03 0.000000000
                                                                         NA
##
   35
          gndrD ~~
                     domicil2
                                    4.841410e-03 0.000000000
                                                                         NA
##
   36
          gndrD ~~
                                 1 -1.962916e-03 0.000000000
                                                                         NA
                     domicil3
##
   37
          gndrD ~~
                     domicil4
                                    5.687496e-04 0.000000000
                                                                         NA
##
   38
          gndrD ~~
                           HDI
                                 1 -4.143478e-04 0.000000000
                                                                         NΑ
##
   39
        eisced2 ~~
                      eisced2
                                    2.117499e-01 0.000000000
                                                                         NA
##
   40
        eisced2 ~~
                      eisced3
                                   -6.869942e-02 0.000000000
                                                                         NA
##
   41
        eisced2 ~~
                                    4.305092e-03 0.000000000
                                                                         NA
                     domicil2
        eisced2 ~~
##
   42
                     domicil3
                                 1 -5.878843e-07 0.000000000
                                                                         NΑ
                     domicil4
##
   43
        eisced2 ~~
                                    1.699807e-03 0.000000000
                                                                         NA
##
   44
        eisced2 ~~
                           HDI
                                 1 -1.290770e-03 0.000000000
                                                                         NA
   45
##
        eisced3 ~~
                      eisced3
                                    1.747430e-01 0.000000000
                                                                         NΑ
##
   46
        eisced3 ~~
                     domicil2
                                 1 -4.430363e-03 0.000000000
                                                                         NA
##
   47
        eisced3 ~~
                     domicil3
                                    7.532168e-03 0.000000000
                                                                         NA
##
  48
        eisced3 ~~
                     domicil4
                                 1
                                    1.751050e-02 0.000000000
                                                                         NA
##
   49
        eisced3 ~~
                           HDI
                                    1.084568e-03 0.000000000
                                                                         NA
   50
       domicil2 ~~
                     domicil2
                                                                         NA
##
                                    2.196542e-01 0.000000000
##
   51
       domicil2 ~~
                     domicil3
                                 1 -3.463694e-02 0.000000000
                                                                         NA
##
   52
       domicil2 ~~
                     domicil4
                                 1 -5.555368e-02 0.000000000
                                                                         NA
##
   53
       domicil2 ~~
                           HDI
                                 1 -1.246387e-05 0.000000000
                                                                         NA
##
   54
       domicil3 ~~
                     domicil3
                                    9.501091e-02 0.000000000
                                                                         NA
##
   55
       domicil3 ~~
                     domicil4
                                 1 -1.812802e-02 0.000000000
                                                                         NΑ
##
   56
       domicil3 ~~
                           HDI
                                    9.243921e-04 0.000000000
                                                                         NA
##
   57
       domicil4 ~~
                     domicil4
                                    1.414393e-01 0.000000000
                                                                         NA
##
   58
       domicil4
                           HDI
                                    -1.005859e-03 0.000000000
                                                                         NA
            HDI ~~
                          HDI
##
   59
                                    6.960898e-04 0.000000000
                                                                         NA
   60
      iphlppl_r ~1
                                   -6.916957e-03 0.200234738 -0.03454424
                                    1.945664e+00 0.137365590 14.16413043
##
   61
      iplylfr_r ~1
                                 0
                                    9.384392e-01 0.181390910
##
   62
      ipeqopt_r ~1
                                                                 5.17357352
      ipudrst_r ~1
                                 0
                                    9.819569e-01 0.162533661
                                                                 6.04156003
##
   63
##
   64
       impenv_r ~1
                                    1.993176e+00 0.125163371 15.92459414
   65
                                    5.015694e+01 0.000000000
##
           agea ~1
                                 1
                                                                         NΑ
##
   66
           gndrD ~1
                                 1
                                    5.209922e-01 0.000000000
                                                                         NA
##
        eisced2 ~1
                                                                         NA
   67
                                 1
                                    3.044242e-01 0.000000000
##
   68
        eisced3 ~1
                                    2.256703e-01 0.000000000
                                                                         NA
                                 1
   69
##
       domicil2 ~1
                                 1
                                    3.258001e-01 0.000000000
                                                                         NA
##
   70
       domicil3 ~1
                                 1
                                     1.063136e-01 0.000000000
                                                                         NA
##
   71
       domicil4 ~1
                                     1.705148e-01 0.000000000
                                                                         NA
##
   72
             HDI ~1
                                    9.089486e-01 0.000000000
                                                                         NΑ
                                 1
##
   73
          Benev ~1
                                 0
                                    0.000000e+00 0.000000000
                                                                         NA
##
   74
          Unive ~1
                                 0
                                    0.000000e+00 0.000000000
                                                                         NA
## 75
         STrasc ~1
                                    0.000000e+00 0.000000000
                                                                         NA
## 76
          Unive r2
                                 0
                                    6.123365e-01
                                                            NA
                                                                         NΑ
                        Unive
## 77
          Benev r2
                        Benev
                                    7.106861e-01
                                                            NA
                                                                         NA
```

```
## 78 iphlppl_r r2 iphlppl_r
                               0 6.920924e-01
                                                         NA
                                                                      NA
## 79 iplylfr_r r2 iplylfr_r
                               0 3.563558e-01
                                                         NA
                                                                     NΑ
  80 ipeqopt_r r2 ipeqopt_r
                               0
                                  4.191265e-01
                                                         NA
                                                                     NA
  81
      ipudrst_r r2 ipudrst_r
                               0
                                  4.220067e-01
                                                         NA
                                                                     NΑ
##
  82
       impenv_r r2
                    impenv_r
                               0
                                  2.599582e-01
                                                         NA
                                                                     NΑ
                               0
##
  83
         STrasc r2
                      STrasc
                                  7.739078e-02
                                                         NA
                                                                     NΑ
            pvalue
##
                          std.lv
                                        std.all
                                                      std.nox
                    8.314389e-01
## 1
                NA
                                  8.319209e-01
                                                 8.319209e-01
##
  2
      0.000000e+00
                    5.384965e-01
                                  5.969555e-01
                                                 5.969555e-01
##
  .3
                NA
                    7.182697e-01
                                   6.473998e-01
                                                 6.473998e-01
  4
      0.000000e+00
                    6.809855e-01
                                   6.496204e-01
                                                 6.496204e-01
## 5
      0.000000e+00
                    5.279129e-01
                                  5.098610e-01
                                                 5.098610e-01
##
  6
                    7.825193e-01
                                  7.825193e-01
                                                 7.825193e-01
                NA
      0.000000e+00
                    8.430220e-01
##
                                   8.430220e-01
                                                 8.430220e-01
## 8
     5.118670e-01
                    3.112761e-04
                                   5.762511e-03
                                                 3.112761e-04
      0.000000e+00
                    3.400968e-01
                                   1.698984e-01
                                                 3.400968e-01
## 10 2.629121e-09
                    1.239308e-01
                                  5.702836e-02
                                                 1.239308e-01
## 11 0.00000e+00
                    2.524795e-01
                                   1.055422e-01
                                                 2.524795e-01
## 12 1.324644e-01
                   2.974100e-02
                                  1.393880e-02
                                                 2.974100e-02
## 13 1.062207e-05 -1.315955e-01 -4.056279e-02 -1.315955e-01
  14 9.101305e-04 -9.301358e-02 -3.498094e-02 -9.301358e-02
## 15 0.00000e+00
                   7.264842e+00
                                  1.916721e-01
                                                7.264842e+00
## 16
                NA
                    3.876635e-01
                                  3.876635e-01
                                                 3.876635e-01
## 17
                NΑ
                    2.893139e-01
                                  2.893139e-01
                                                 2.893139e-01
## 18 0.00000e+00
                    3.075509e-01
                                  3.079076e-01
                                                 3.079076e-01
  19 0.000000e+00
                    5.237545e-01
                                  6.436442e-01
                                                 6.436442e-01
                    7.150089e-01
  20 0.000000e+00
                                  5.808735e-01
                                                 5.808735e-01
  21 0.000000e+00
                    6.351541e-01
                                  5.779933e-01
                                                 5.779933e-01
## 22 0.000000e+00
                    7.933726e-01
                                  7.400418e-01
                                                 7.400418e-01
## 23
     0.000000e+00
                    9.226092e-01
                                  9.226092e-01
                                                 9.226092e-01
## 24
                NA
                    3.427142e+02
                                  1.000000e+00
                                                 3.427142e+02
##
  25
                    3.514386e-01
                                  3.800115e-02
                                                3.514386e-01
##
  26
                NA -8.641592e-01 -1.014416e-01 -8.641592e-01
## 27
                NA -5.996190e-01 -7.748354e-02 -5.996190e-01
##
  28
                   -1.137346e-01 -1.310861e-02 -1.137346e-01
##
                    1.829517e-02 3.206149e-03
  29
                                                1.829517e-02
## 30
                NA -3.808200e-01 -5.469765e-02 -3.808200e-01
## 31
                    1.074974e-02 2.200894e-02
                                                1.074974e-02
                NΑ
  32
                    2.495591e-01
                                  1.000000e+00
##
                                                 2.495591e-01
                NA
##
  33
                    1.601448e-03
                                  6.966499e-03
                                                 1.601448e-03
  34
                    1.828659e-03
                                 8.756814e-03
                                                 1.828659e-03
  35
                    4.841410e-03 2.067833e-02
##
                                                4.841410e-03
##
  36
                NA -1.962916e-03 -1.274759e-02 -1.962916e-03
##
  37
                   5.687496e-04 3.027257e-03 5.687496e-04
##
  38
                NA -4.143478e-04 -3.143734e-02 -4.143478e-04
                    2.117499e-01 1.000000e+00
## 39
                                                2.117499e-01
##
  40
                NA -6.869942e-02 -3.571425e-01 -6.869942e-02
##
  41
                    4.305092e-03 1.996187e-02 4.305092e-03
##
  42
                NA -5.878843e-07 -4.144704e-06 -5.878843e-07
## 43
                    1.699807e-03 9.822065e-03
                                                1.699807e-03
                NA -1.290770e-03 -1.063175e-01 -1.290770e-03
##
  44
## 45
                   1.747430e-01 1.000000e+00 1.747430e-01
## 46
                NA -4.430363e-03 -2.261360e-02 -4.430363e-03
                   7.532168e-03 5.845657e-02 7.532168e-03
## 47
```

```
## 48
                NA 1.751050e-02 1.113816e-01 1.751050e-02
## 49
                    1.084568e-03 9.833867e-02 1.084568e-03
                    2.196542e-01 1.000000e+00 2.196542e-01
## 50
                NA -3.463694e-02 -2.397635e-01 -3.463694e-02
## 51
## 52
                NA -5.555368e-02 -3.151795e-01 -5.555368e-02
## 53
                NA -1.246387e-05 -1.007976e-03 -1.246387e-05
## 54
                    9.501091e-02 1.000000e+00 9.501091e-02
                NA -1.812802e-02 -1.563790e-01 -1.812802e-02
## 55
## 56
                NA
                     9.243921e-04 1.136676e-01
                                                 9.243921e-04
## 57
                NA
                    1.414393e-01 1.000000e+00
                                                 1.414393e-01
## 58
                NA -1.005859e-03 -1.013723e-01 -1.005859e-03
                    6.960898e-04 1.000000e+00
                                                 6.960898e-04
## 59
                NA
   60 9.724432e-01 -6.916957e-03 -6.920967e-03 -6.920967e-03
  61 0.000000e+00
                                  2.156885e+00
                                                 2.156885e+00
                    1.945664e+00
## 62 2.296587e-07
                    9.384392e-01
                                   8.458458e-01
                                                  8.458458e-01
## 63 1.526312e-09
                    9.819569e-01
                                   9.367296e-01
                                                  9.367296e-01
      0.000000e+00
                     1.993176e+00
                                   1.925020e+00
   64
                                                  1.925020e+00
## 65
                    5.015694e+01
                                   2.709350e+00
                                                  5.015694e+01
                NA
                    5.209922e-01
## 66
                                   1.042905e+00
                                                 5.209922e-01
                NΑ
## 67
                    3.044242e-01
                                   6.615574e-01
                                                  3.044242e-01
##
  68
                NA
                     2.256703e-01
                                   5.398517e-01
                                                  2.256703e-01
## 69
                     3.258001e-01
                                   6.951548e-01
                                                  3.258001e-01
## 70
                     1.063136e-01
                                   3.449070e-01
                NΑ
                                                  1.063136e-01
## 71
                     1.705148e-01
                                   4.533952e-01
                NΑ
                                                  1.705148e-01
## 72
                NA
                     9.089486e-01
                                   3.445139e+01
                                                  9.089486e-01
  73
                NA
                     0.000000e+00
                                   0.000000e+00
                                                  0.000000e+00
## 74
                NA
                     0.00000e+00
                                   0.000000e+00
                                                  0.000000e+00
                     0.000000e+00
                                   0.000000e+00
                                                  0.000000e+00
##
   75
                NA
## 76
                NA
                               NA
                                              NA
                                                             NA
## 77
                NA
                               NA
                                              NA
                                                            NA
## 78
                NA
                               NA
                                              NA
                                                            NA
## 79
                NA
                               NA
                                              NΑ
                                                            NA
## 80
                NA
                               NA
                                              ΝA
                                                             NA
                               NA
                                              NA
                                                             NΑ
## 81
                NA
## 82
                 NA
                               NA
                                              NA
                                                             NA
##
   83
                 NA
                               NA
                                              NA
                                                             ΝA
##
##
   [1] "ESS round:
                    9"
##
                                           cfi
           chisq
                         pvalue
                                                         tli
                                                                      rmsea
        3758.780
                          0.000
                                                                      0.062
##
                                        0.859
                                                       0.810
                                                                 tli.robust
##
            srmr
                  chisq.scaled pvalue.scaled
                                                  cfi.robust
##
           0.032
                       1614.891
                                        0.000
                                                       0.861
                                                                      0.812
##
    rmsea.robust
                  srmr bentler
##
           0.061
                          0.032
##
            lhs op
                          rhs
                                           epc sepc.lv sepc.all sepc.nox
                                    mi
## 96
                        Unive 1360.166
                                        0.213
                                                 1.067
                                                          1.067
                                                                    1.067
          Benev ~~
##
   80
          Unive =~ iplylfr_r 1315.090
                                        0.604
                                                 0.421
                                                          0.477
                                                                    0.477
## 81
         STrasc =~ iphlppl_r 1252.066 -3.016
                                                -1.614
                                                         -1.639
                                                                   -1.639
          Benev =~ iphlppl_r 1252.064 -1.176
                                                -0.963
                                                         -0.978
                                                                   -0.978
## 86
      iphlppl_r ~~ iplylfr_r 1252.062 -0.296
                                                -0.296
                                                         -0.756
                                                                   -0.756
## 17
                                                -0.298
          Benev ~~
                        Benev 1252.062 -0.470
                                                         -0.298
                                                                   -0.298
## 82
         STrasc =~ iplylfr_r 1252.043 1.896
                                                 1.015
                                                          1.151
                                                                   1.151
## 16
          Unive ~~
                        Unive 973.354 -0.256
                                                -0.411
                                                         -0.411
                                                                   -0.411
## 3
          Unive =~ ipeqopt_r 973.351 -0.641
                                               -0.447
                                                         -0.408
                                                                   -0.408
```



## ##	lavaan 0.6-5 ended normally	after 97 iterations	
##	Estimator	ML	
##	Optimization method	NLMINB	
##	Number of free parameters	23	
##	•		
##	Number of observations	26525	
##			
##	Model Test User Model:		
##		Standard	Robust
##	Test Statistic	3758.780	1614.891
##	Degrees of freedom	37	37
##	P-value (Chi-square)	0.000	0.000
##	Scaling correction factor		2.328
##	for the Satorra-Bentler	correction	
##			
##	Model Test Baseline Model:		
##			
##	Test statistic	26486.419	12297.479
##	Degrees of freedom	50	50
##	P-value	0.000	0.000
##	Scaling correction factor		2.154
##			
##	User Model versus Baseline ${\tt M}$	odel:	

```
##
##
     Comparative Fit Index (CFI)
                                                     0.859
                                                                  0.871
     Tucker-Lewis Index (TLI)
##
                                                     0.810
                                                                  0.826
##
##
     Robust Comparative Fit Index (CFI)
                                                                  0.861
##
     Robust Tucker-Lewis Index (TLI)
                                                                  0.812
##
## Loglikelihood and Information Criteria:
##
##
     Loglikelihood user model (HO)
                                               -311112.889 -311112.889
##
     Loglikelihood unrestricted model (H1)
                                               -309233.498 -309233.498
##
     Akaike (AIC)
##
                                                622271.777 622271.777
                                                622460.052 622460.052
##
     Bayesian (BIC)
##
     Sample-size adjusted Bayesian (BIC)
                                                622386.958 622386.958
##
## Root Mean Square Error of Approximation:
##
##
     RMSEA
                                                     0.062
                                                                  0.040
     90 Percent confidence interval - lower
                                                     0.060
                                                                  0.039
##
##
     90 Percent confidence interval - upper
                                                     0.063
                                                                  0.041
##
     P-value RMSEA <= 0.05
                                                     0.000
                                                                  1.000
##
##
     Robust RMSEA
                                                                  0.061
##
     90 Percent confidence interval - lower
                                                                  0.059
##
     90 Percent confidence interval - upper
                                                                  0.064
##
## Standardized Root Mean Square Residual:
##
     SRMR
                                                     0.032
                                                                  0.032
##
##
## Parameter Estimates:
##
##
     Information
                                                       Expected
##
     Information saturated (h1) model
                                                     Structured
##
     Standard errors
                                             Robust.cluster.sem
##
## Latent Variables:
##
                      Estimate Std.Err z-value P(>|z|)
                                                              Std.lv Std.all
     Benev =~
##
##
       iphlppl_r
                         1.000
                                                               0.819
                                                                        0.832
                                           53.090
##
       iplylfr_r
                         0.629
                                   0.012
                                                     0.000
                                                              0.515
                                                                        0.584
     Unive =~
##
##
                         1.000
                                                              0.697
                                                                        0.636
       ipeqopt_r
##
                         0.959
                                   0.017
                                           57.404
                                                     0.000
                                                               0.669
                                                                        0.645
       ipudrst_r
                                   0.014
                                           50.530
                                                     0.000
                                                               0.504
##
       impenv_r
                         0.723
                                                                        0.509
     STrasc =~
##
##
       Unive
                         1.000
                                                               0.767
                                                                        0.767
##
       Benev
                         1.282
                                   0.033
                                           39.147
                                                     0.000
                                                               0.838
                                                                        0.838
##
## Regressions:
                      Estimate Std.Err z-value P(>|z|)
                                                              Std.lv Std.all
##
##
     STrasc ~
                        -0.001
                                   0.000
##
       agea
                                           -2.415
                                                     0.016
                                                             -0.001
                                                                       -0.020
```

##	gndrD	0.184	0.009	19.967	0.000	0.344	0.171	
##	eisced2	0.048	0.010	4.597	0.000	0.090	0.042	
##	eisced3	0.096	0.011	8.800	0.000	0.180	0.077	
##	domicil2	0.001	0.010	0.074	0.941	0.001	0.001	
##	domicil3	0.054	0.015	3.719	0.000	0.101	0.032	
##	domicil4	-0.005	0.013	-0.400	0.689	-0.010	-0.004	
##	HDI	5.349	0.193	27.746	0.000	9.997	0.247	
##								
##	Intercepts:							
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all	
##	.iphlppl_r	-1.555	0.212	-7.323	0.000	-1.555	-1.579	
##	.iplylfr_r	1.082	0.140	7.744	0.000	1.082	1.227	
##	.ipeqopt_r	-0.165	0.179	-0.923	0.356	-0.165	-0.151	
##	.ipudrst_r	-0.120	0.164	-0.736	0.461	-0.120	-0.116	
##	.impenv_r	1.397	0.128	10.883	0.000	1.397	1.410	
##	.Benev	0.000				0.000	0.000	
##	.Unive	0.000				0.000	0.000	
##	.STrasc	0.000				0.000	0.000	
##								
##	Variances:							
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all	
##	.Unive	0.200				0.411	0.411	
##	.Benev	0.200				0.298	0.298	
##	.iphlppl_r	0.299	0.011	26.335	0.000	0.299	0.308	
##	.iplylfr_r	0.512	0.008	60.521	0.000	0.512	0.659	
##	.ipeqopt_r	0.715	0.013	53.900	0.000	0.715	0.595	
##	.ipudrst_r	0.627	0.012	53.436	0.000	0.627	0.584	
##	.impenv_r	0.729	0.011	68.381	0.000	0.729	0.741	
##	.STrasc	0.258	0.010	26.003	0.000	0.902	0.902	
##								
	R-Square:							
##	1	Estimate						
##	Unive	0.589						
##	Benev	0.702						
##	iphlppl_r	0.692						
##	iplylfr_r	0.341						
##	ipeqopt_r	0.405						
##	ipudrst_r	0.416						
##	impenv_r	0.259						
##	STrasc	0.098						
##								
##	\$FIT							
##	4	npa	r			fmin		
##		23.00						
##								
##		chis 3758.78	-		37	.000		
##		pvalu						
##		0.00						
##		df.scale						
##		37.00		<u>-</u>				
##	chica ac	caling.facto		h	o aseline.c			
##	cirrad. 20	2.32		U	26486	-		
##		baseline.d		ha	seline.pv			
##		50.00		Ja	_	.000		
π#		30.00	•		U	.000		

```
##
           baseline.chisq.scaled
                                             baseline.df.scaled
##
                       12297.479
                                                          50,000
##
          baseline.pvalue.scaled baseline.chisq.scaling.factor
                            0.000
##
                                                           2.154
##
                              cfi
                                                             tli
##
                            0.859
                                                           0.810
                      cfi.scaled
                                                     tli.scaled
##
                                                           0.826
##
                            0.871
##
                      cfi.robust
                                                     tli.robust
##
                                                           0.812
                           0.861
##
                             logl
                                              unrestricted.log1
                                                    -309233.498
##
                     -311112.889
##
                              aic
                                                             bic
##
                      622271.777
                                                     622460.052
##
                          ntotal
                                                            bic2
##
                        26525.000
                                                     622386.958
##
                           rmsea
                                                 rmsea.ci.lower
##
                            0.062
                                                           0.060
##
                                                   rmsea.pvalue
                  rmsea.ci.upper
##
                           0.063
                                                           0.000
##
                    rmsea.scaled
                                          rmsea.ci.lower.scaled
##
                           0.040
                                                           0.039
                                            rmsea.pvalue.scaled
##
           rmsea.ci.upper.scaled
                            0.041
##
                                                           1.000
                    rmsea.robust
##
                                          rmsea.ci.lower.robust
                            0.061
                                                           0.059
##
                                            rmsea.pvalue.robust
           rmsea.ci.upper.robust
##
                            0.064
##
                             srmr
                            0.032
##
##
##
   $PE
##
            lhs op
                         rhs exo
                                            est
                                   1.000000e+00 0.0000000000
                                                                       NA
## 1
          Benev =~ iphlppl_r
                                0
                                  6.288398e-01 0.0118448265 53.08982374
## 2
          Benev =~ iplylfr_r
                                0
## 3
          Unive =~ ipeqopt_r
                                0
                                  1.000000e+00 0.0000000000
## 4
          Unive =~ ipudrst r
                                  9.586873e-01 0.0167005634 57.40448893
## 5
          Unive =~ impenv_r
                                0 7.232728e-01 0.0143136153 50.53040956
                                0 1.000000e+00 0.0000000000
## 6
         STrasc =~
                       Unive
                                0 1.282179e+00 0.0327526886 39.14728655
## 7
         STrasc =~
                       Benev
## 8
         STrasc ~
                                0 -5.718666e-04 0.0002367768 -2.41521366
                        agea
## 9
         STrasc
                       gndrD
                                0 1.838383e-01 0.0092070020 19.96722313
         STrasc
                     eisced2
                                0 4.810490e-02 0.0104633949
                                                              4.59744706
## 10
## 11
         STrasc
                     eisced3
                                0 9.624658e-02 0.0109375590
                                                              8.79963995
## 12
         STrasc
                    domicil2
                                  7.760814e-04 0.0104236032
                                                              0.07445423
## 13
                                0 5.404865e-02 0.0145324812 3.71916202
         STrasc
                   domicil3
                    domicil4
                                0 -5.125741e-03 0.0128018791 -0.40038974
## 14
         STrasc
## 15
         STrasc ~
                         HDI
                                0 5.349207e+00 0.1927943730 27.74566053
                                0 2.000000e-01 0.0000000000
## 16
          Unive ~~
                       Unive
                                                                       NA
                               0 2.000000e-01 0.0000000000
## 17
          Benev ~~
                       Benev
                                                                       NA
                               0 2.988274e-01 0.0113473437 26.33456673
## 18 iphlppl_r ~~ iphlppl_r
                                0 5.124787e-01 0.0084678011 60.52087113
## 19 iplylfr_r ~~ iplylfr_r
## 20 ipeqopt_r ~~ ipeqopt_r
                                0 7.150453e-01 0.0132661737 53.89988689
## 21 ipudrst_r ~~ ipudrst_r
                                0 6.267135e-01 0.0117283348 53.43584594
```

```
22
                                    7.285857e-01 0.0106547427 68.38135561
##
       impenv_r ~~
                     impenv r
                       STrasc
##
   23
         STrasc ~~
                                 0
                                    2.583604e-01 0.0099356700 26.00332179
##
   24
            agea ~~
                          agea
                                    3.512025e+02 0.0000000000
                                                                          NA
##
  25
                                    3.753336e-01 0.00000000000
                                                                          NΔ
            agea ~~
                         gndrD
##
   26
            agea ~~
                      eisced2
                                 1 -7.056186e-01 0.0000000000
                                                                          NA
   27
##
                                 1 -6.766041e-01 0.0000000000
                                                                          NA
           agea ~~
                      eisced3
  28
           agea ~~
##
                     domicil2
                                 1 -2.465282e-02 0.0000000000
                                                                          NA
##
  29
            agea ~~
                     domicil3
                                 1
                                    1.011899e-01 0.0000000000
                                                                          NA
##
   30
                     domicil4
                                 1 -3.280675e-01 0.0000000000
                                                                          NA
           agea ~~
##
   31
           agea ~~
                           HDI
                                 1 -5.391844e-03 0.0000000000
                                                                          NA
##
   32
          gndrD ~~
                        gndrD
                                    2.488967e-01 0.0000000000
                                                                          NA
   33
##
          gndrD ~~
                      eisced2
                                    2.946780e-03 0.0000000000
                                                                          NA
##
   34
          gndrD ~~
                                    1.490203e-03 0.0000000000
                                                                          NA
                      eisced3
                                    6.028328e-03 0.0000000000
##
   35
          gndrD ~~
                     domicil2
                                                                          NA
##
   36
          gndrD ~~
                     domicil3
                                    3.920998e-04 0.0000000000
                                                                          NΑ
##
   37
          gndrD ~~
                     domicil4
                                    1.157523e-03 0.0000000000
                                                                          NA
##
   38
                           HDI
                                 1 -5.210685e-04 0.0000000000
                                                                          NΑ
          gndrD ~~
##
   39
        eisced2 ~~
                                    2.161873e-01 0.0000000000
                                                                          NA
                      eisced2
        eisced2 ~~
##
                      eisced3
   40
                                 1 -7.523850e-02 0.0000000000
                                                                          NA
##
   41
        eisced2 ~~
                     domicil2
                                    6.072798e-03 0.0000000000
                                                                          NA
##
   42
        eisced2 ~~
                     domicil3
                                 1 -1.758815e-03 0.0000000000
                                                                          NA
   43
                                    3.915938e-03 0.0000000000
##
        eisced2 ~~
                     domicil4
                                                                          NA
        eisced2 ~~
##
  44
                           HDI
                                 1 -1.109088e-03 0.0000000000
                                                                          NA
##
   45
        eisced3 ~~
                      eisced3
                                    1.813597e-01 0.0000000000
                                                                          NA
                                 1 -3.350745e-03 0.0000000000
##
   46
        eisced3 ~~
                     domicil2
                                                                          NA
##
   47
        eisced3 ~~
                     domicil3
                                    9.776459e-03 0.0000000000
                                                                          NA
        eisced3 ~~
                                                                          NA
##
   48
                     domicil4
                                    1.321128e-02 0.0000000000
##
   49
        eisced3 ~~
                           HDI
                                    9.247940e-04 0.0000000000
                                                                          NA
                                                                          NA
##
   50
       domicil2 ~~
                     domicil2
                                    2.168749e-01 0.0000000000
##
   51
       domicil2 ~~
                     domicil3
                                 1 -3.637234e-02 0.0000000000
                                                                          NA
##
   52
       domicil2 ~~
                     domicil4
                                 1 -5.640179e-02 0.0000000000
                                                                          NA
##
   53
       domicil2 ~~
                           HDI
                                 1 -2.078426e-04 0.0000000000
                                                                          NA
##
   54
       domicil3 ~~
                     domicil3
                                    1.012966e-01 0.0000000000
                                                                          NA
##
   55
       domicil3 ~~
                     domicil4
                                   -2.028695e-02 0.0000000000
                                                                          NΑ
##
   56
       domicil3
                           HDI
                                    8.963800e-04 0.0000000000
                                                                          NA
                                                                          NA
##
   57
       domicil4
                ~ ~
                     domici14
                                    1.459069e-01 0.0000000000
##
   58
       domicil4 ~~
                          HDI
                                 1 -1.068151e-03 0.0000000000
                                                                          NA
##
  59
             HDI
                ~ ~
                           HDI
                                    6.101580e-04 0.0000000000
                                                                          NA
##
   60
      iphlppl_r ~1
                                    -1.554777e+00 0.2123220931 -7.32272680
      iplylfr_r
                                     1.081808e+00 0.1397051554
                                                                  7.74350845
##
   61
                ~1
##
   62
      ipeqopt_r ~1
                                    -1.652404e-01 0.1789450623 -0.92341391
                                    -1.204873e-01 0.1636150472 -0.73640718
##
   63
      ipudrst r ~1
                                 0
##
   64
       impenv_r ~1
                                 0
                                    1.397466e+00 0.1284110762 10.88275608
##
   65
                                    5.093217e+01 0.0000000000
                                                                          NA
           agea ~1
                                 1
##
   66
          gndrD ~1
                                    5.332113e-01 0.0000000000
                                                                          NA
                                 1
## 67
        eisced2 ~1
                                 1
                                    3.161185e-01 0.0000000000
                                                                          ΝA
##
   68
        eisced3 ~1
                                 1
                                    2.380076e-01 0.0000000000
                                                                          NA
##
   69
       domicil2 ~1
                                 1
                                    3.179977e-01 0.0000000000
                                                                          NA
##
   70
       domicil3 ~1
                                    1.143794e-01 0.0000000000
                                                                          NA
                                 1
##
   71
       domicil4
                                    1.773657e-01 0.0000000000
                                                                          NA
                                 1
##
  72
            HDI ~1
                                 1
                                    9.125401e-01 0.0000000000
                                                                          NΑ
##
  73
          Benev ~1
                                 0
                                    0.000000e+00 0.0000000000
                                                                          NA
## 74
          Unive ~1
                                 0
                                    0.000000e+00 0.0000000000
                                                                          NA
## 75
         STrasc ~1
                                    0.000000e+00 0.0000000000
                                                                          NA
```

```
## 76
          Unive r2
                                0 5.887473e-01
                                                                       NA
                       Unive
## 77
                                                                       NΑ
          Benev r2
                       Benev
                                0
                                  7.018057e-01
                                                           NΑ
  78 iphlppl r r2 iphlppl r
                                  6.917815e-01
                                                           NA
                                                                       NA
  79 iplylfr_r r2 iplylfr_r
                                                                       NA
                                0
                                  3.410341e-01
                                                           NA
  80 ipeqopt_r r2 ipeqopt_r
                                0
                                  4.048056e-01
                                                           NA
                                                                       NA
                                  4.162941e-01
                                                                       NA
  81 ipudrst r r2 ipudrst r
                                0
                                                           NA
## 82
       impenv_r r2
                    impenv r
                                0
                                   2.588071e-01
                                                           NA
                                                                       NA
                      STrasc
                                   9.764849e-02
## 83
         STrasc r2
                                0
                                                           NA
                                                                       NA
            pvalue
##
                           std.lv
                                        std.all
                                                       std.nox
## 1
                NA
                    8.189649e-01
                                   0.8317340267
                                                 8.317340e-01
  2
      0.000000e+00
                    5.149977e-01
                                   0.5839812072
                                                 5.839812e-01
  3
##
                NA
                    6.973658e-01
                                   0.6362433805
                                                 6.362434e-01
##
  4
      0.000000e+00
                    6.685557e-01
                                   0.6452085784
                                                 6.452086e-01
      0.000000e+00
                    5.043857e-01
                                   0.5087308664
                                                 5.087309e-01
## 5
                                                 7.672987e-01
## 6
                NA
                    7.672987e-01
                                   0.7672987307
## 7
      0.000000e+00
                    8.377384e-01
                                   0.8377384237
                                                 8.377384e-01
  8
      1.572598e-02 -1.068734e-03 -0.0200284982 -1.068734e-03
      0.000000e+00
                    3.435665e-01
                                   0.1714037531
                                                 3.435665e-01
## 10 4.276993e-06
                    8.990094e-02
                                  0.0418002924
                                                 8.990094e-02
## 11 0.00000e+00
                    1.798706e-01
                                   0.0766003268
                                                 1.798706e-01
## 12 9.406490e-01
                    1.450381e-03
                                  0.0006754399
                                                 1.450381e-03
## 13 1.998848e-04
                   1.010089e-01
                                   0.0321482424
                                                 1.010089e-01
## 14 6.888695e-01 -9.579251e-03 -0.0036590592 -9.579251e-03
## 15
     0.000000e+00
                    9.996876e+00
                                   0.2469366039
                                                 9.996876e+00
## 16
                NA
                    4.112527e-01
                                   0.4112526578
                                                 4.112527e-01
                NA
                    2.981943e-01
                                   0.2981943334
                                                 2.981943e-01
                    2.988274e-01
  18 0.000000e+00
                                   0.3082185088
                                                 3.082185e-01
  19 0.000000e+00
                    5.124787e-01
                                   0.6589659496
                                                 6.589659e-01
## 20 0.000000e+00
                    7.150453e-01
                                   0.5951943608
                                                 5.951944e-01
## 21 0.00000e+00
                    6.267135e-01
                                   0.5837058903
                                                 5.837059e-01
## 22 0.000000e+00
                    7.285857e-01
                                   0.7411929056
                                                 7.411929e-01
  23
     0.000000e+00
                    9.023515e-01
                                   0.9023515104
                                                 9.023515e-01
## 24
                    3.512025e+02
                                   1.000000000
                                                 3.512025e+02
                NA
## 25
                NΑ
                    3.753336e-01
                                  0.0401447846
                                                 3.753336e-01
## 26
                NA -7.056186e-01 -0.0809796973 -7.056186e-01
## 27
                NA -6.766041e-01 -0.0847784376 -6.766041e-01
## 28
                NA -2.465282e-02 -0.0028247707 -2.465282e-02
## 29
                    1.011899e-01 0.0169652681
                                                1.011899e-01
##
  30
                   -3.280675e-01 -0.0458296442 -3.280675e-01
##
  31
                NA -5.391844e-03 -0.0116476235 -5.391844e-03
  32
                    2.488967e-01
                                  1.0000000000
                                                 2.488967e-01
##
  33
                    2.946780e-03
                                  0.0127034896
                                                 2.946780e-03
                NΑ
##
  34
                NA
                    1.490203e-03
                                  0.0070139956
                                                 1.490203e-03
##
  35
                NA
                    6.028328e-03
                                  0.0259467342
                                                 6.028328e-03
##
  36
                NA
                    3.920998e-04
                                  0.0024693894
                                                 3.920998e-04
## 37
                NA
                    1.157523e-03
                                  0.0060741049
                                                 1.157523e-03
##
  38
                NA -5.210685e-04 -0.0422828331 -5.210685e-04
##
  39
                    2.161873e-01 1.0000000000
                                                 2.161873e-01
##
  40
                NA -7.523850e-02 -0.3799746527 -7.523850e-02
## 41
                    6.072798e-03 0.0280458859
                                                 6.072798e-03
## 42
                NA -1.758815e-03 -0.0118852281 -1.758815e-03
## 43
                   3.915938e-03 0.0220486914 3.915938e-03
## 44
                NA -1.109088e-03 -0.0965672158 -1.109088e-03
                    1.813597e-01 1.0000000000 1.813597e-01
## 45
```

```
## 47
                   9.776459e-03 0.0721296240 9.776459e-03
## 48
                    1.321128e-02 0.0812150351
                                                 1.321128e-02
##
  49
                    9.247940e-04 0.0879130603
                                                 9.247940e-04
##
  50
                    2.168749e-01 1.0000000000
                                                 2.168749e-01
                NA -3.637234e-02 -0.2453969333 -3.637234e-02
## 51
                NA -5.640179e-02 -0.3170665299 -5.640179e-02
## 52
                NA -2.078426e-04 -0.0180679497 -2.078426e-04
## 53
##
  54
                    1.012966e-01 1.0000000000
                                                1.012966e-01
                NA -2.028695e-02 -0.1668712195 -2.028695e-02
## 55
## 56
                   8.963800e-04 0.1140180231
                                                8.963800e-04
                    1.459069e-01 1.0000000000
                                                 1.459069e-01
## 57
##
  58
                NA -1.068151e-03 -0.1132071138 -1.068151e-03
                   6.101580e-04 1.000000000 6.101580e-04
## 59
## 60 2.429168e-13 -1.554777e+00 -1.5790183711 -1.579018e+00
## 61 9.769963e-15 1.081808e+00 1.2267153162
                                                 1.226715e+00
  62 3.557915e-01 -1.652404e-01 -0.1507574456 -1.507574e-01
  63 4.614829e-01 -1.204873e-01 -0.1162796654 -1.162797e-01
                                                1.409505e+00
  64 0.000000e+00
                   1.397466e+00 1.4095051653
## 65
                NA
                   5.093217e+01
                                  2.7177744054
                                                 5.093217e+01
##
  66
                    5.332113e-01
                                  1.0687836358
                                                 5.332113e-01
## 67
                    3.161185e-01
                                  0.6798840274
                                                 3.161185e-01
## 68
                    2.380076e-01
                                  0.5588823466
                                                 2.380076e-01
                NΑ
                    3.179977e-01
                                  0.6828406186
## 69
                NΑ
                                                 3.179977e-01
## 70
                NA
                    1.143794e-01
                                  0.3593770897
                                                 1.143794e-01
  71
                NA
                    1.773657e-01
                                  0.4643352516
                                                 1.773657e-01
## 72
                    9.125401e-01 36.9428816993
                                                 9.125401e-01
                NA
                                  0.000000000
##
  73
                NA
                    0.000000e+00
                                                 0.000000e+00
                                   0.000000000
## 74
                NA
                    0.000000e+00
                                                 0.000000e+00
                    0.000000e+00
                                   0.000000000
## 75
                NA
                                                 0.00000e+00
## 76
                NA
                               NA
                                             NA
                                                            NΑ
##
  77
                NA
                               NA
                                             NA
                                                            NA
## 78
                NA
                               NA
                                             NA
                                                            NA
## 79
                NA
                               NΑ
                                             NA
                                                            NΑ
## 80
                NA
                               NA
                                             NA
                                                            NA
## 81
                NA
                               NA
                                             NA
                                                            NA
## 82
                NA
                               NA
                                             NA
                                                            NA
## 83
                NA
                               NA
                                             NA
                                                            NA
#
  sum1 <-full join(parameterEstimates(survey.fit3r8),</pre>
#
                   parameterEstimates(survey.fit3r9),
#
                   by=c("lhs", "op", "rhs"))
  sum2 <-full_join(parameterEstimates(survey.scalfit3r8),</pre>
#
                   parameterEstimates(survey.scalfit3r9),
#
                   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.semscalfit3r8),</pre>
                    parameterEstimates(survey.semscalfit3r9),
```

NA -3.350745e-03 -0.0168953169 -3.350745e-03

46

#

by=c("lhs", "op", "rhs", "block", "group"))

```
\# sum2 <- sum2 %>% mutate(est.x = ifelse(pvalue.x > 0.05, NA, round(est.x,3)),
#
                            est.y = ifelse(pvalue.y > 0.05, NA, round(est.y,3)))
#
# val_lab(sum2$block) <- cntrylabels</pre>
# sum2$block <- as.character(sum2$block)</pre>
\# sum4 <- sum4 %>% mutate(est.x = ifelse(pvalue.x > 0.05, NA, round(est.x,3)),
                            est.x = ifelse(rhs == "agea", est.x*10, est.x),
#
#
                            est.y = ifelse(pvalue.y > 0.05, NA, round(est.y,3)),
#
                            est.y = ifelse(rhs == "agea", est.y*10, est.y),
#
                           rhs1 = ifelse(rhs == "gndrD", "Gender (Female / Male)",
                                   ifelse(rhs == "agea", "Age (10 years increment)",
#
                                   ifelse(rhs == "eisced2", "Highest level of education, (Upper secondar
#
                                   ifelse(rhs == "eisced3", "Highest level of education, (Bachelor or hi
#
#
                                   ifelse(rhs == "domicil2", "Domicile (Town or small city/Countryside)"
                                   ifelse(rhs == "domicil3", "Domicile (Suburbs or outskirts of big city
#
#
                                   ifelse(rhs == "domicil4", "Domicile (A big city/Countryside)",
#
                                   ifelse(rhs == "HDI_i", "Human Development Index", rhs))))))))
# val_lab(sum4$block) <- cntrylabels</pre>
# sum4$block <- as.character(sum4$block)</pre>
# dir <- "G:/My Drive/Master in Statistics/Structural equations/Paper/"
# write.table(sum1,paste0(dir,"Parametersfit.csv"), sep = ",", row.names = FALSE)
# write.table(sum2,paste0(dir,"ParametersScalfit.csv"), sep = ",", row.names = FALSE)
# write.table(sum3,pasteO(dir,"ParametersSemfit.csv"), sep = ",", row.names = FALSE)
# write.table(sum4, paste0(dir, "ParametersSemScalfit.csv"), sep = ",", row.names = FALSE)
```

Ordered variables

The model with categorical variables is undefined, only 5 variables and too many parameters to estimate.

```
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.Ordfit3 <- lavaan(model13, data=ds_filtrada, estimator = "WLSMV",</pre>
                        cluster = "cntry",
                       ordered = c("iphlppl_r", "iplylfr_r", "ipeqopt_r", "ipudrst_r", "impenv r"))
  survey.Ordfit3 <- lavaan.Ordfit3</pre>
  \#survey.Ordfit3 \leftarrow lavaan.survey(lavaan.fit=lavaan.Ordfit3,survey.design=survey.design)
  assign(paste0("survey.Ordfit3r",r),survey.Ordfit3)
  print(paste("ESS round: ", r))
  print(fitMeasures(survey.Ordfit3, c("chisq","pvalue","cfi", "tli","rmsea", "srmr",
                                        "chisq.scaled", "pvalue.scaled", "cfi.robust", "tli.robust", "rmsea.r
  #print(modindices(survey.Ordfit3,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.Ordfit3))
  # invisible(semPaths(survey.Ordfit3, "model", "stand", style = "lisrel", rainbowStart = 0.8))
```

```
print(summary(survey.Ordfit3, standardized=T, rsquare=T, fit.measures=T))
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.Ordfit3 <- lavaan(model13, data=ds filtrada, estimator = "WLSMV",</pre>
                        ordered = c("iphlppl_r", "iplylfr_r", "ipeqopt_r", "ipudrst_r", "impenv_r"))
  survey.Ordfit3 <- lavaan.Ordfit3</pre>
  assign(paste0("survey.Ordfit3r",r),survey.Ordfit3)
  print(paste("ESS round: ", r))
  print(fitMeasures(survey.Ordfit3, c("chisq","pvalue","cfi", "tli","rmsea", "srmr",
                                       "chisq.scaled", "pvalue.scaled", "cfi.robust", "tli.robust", "rmsea.r
  #print(modindices(survey.Ordfit3,sort=T)[1:10,])
  # cov <- round(cov(ds_filtrada[,items], use="complete.obs"),3)
  # print(lowerMat(cov, digits=3))
  # print(round(colMeans(ds_filtrada[,items], na.rm = TRUE),3))
  # print(fitted(survey.Ordfit3))
  # invisible(semPaths(survey.Ordfit3, "model", "stand", style = "lisrel", rainbowStart = 0.8))
  print(summary(survey.Ordfit3, standardized=T, rsquare=T, fit.measures=T))
```

Multilevel CFA

```
mmodel31<-'
level: 1
Benev_w =~ iphlppl_r + iplylfr_r
Unive_w =~ ipeqopt_r + ipudrst_r + impenv_r
Unive_w ~~ Benev_w
Unive w ~~ 0.3*Unive w
Benev_w ~~ 0.4*Benev_w
level: 2
Benev_b =~ iphlppl_r + iplylfr_r
Unive_b =~ ipeqopt_r + ipudrst_r
Unive_b ~~ Benev_b
Unive_b ~~ 0.03*Unive_b
Benev_b ~~ 0.04*Benev_b
#+ impenv_r
for (r in c(8,9)) {
  ds_filtrada <- ds_filtradaAll %>% filter(essround == r)
  lavaan.mfit3 <- lavaan(mmodel31, data=ds filtrada, auto.fix.first=TRUE, sampling.weights = "dweight",
                       auto.var=TRUE, int.ov.free=TRUE, auto.cov.lv.x=TRUE,
                       cluster = "cntry", meanstructure=TRUE)
  survey.mfit3 <- lavaan.mfit3</pre>
  assign(paste0("survey.mfit3r",r),survey.mfit3)
```

```
print(paste("ESS round: ", r))
  print(fitMeasures(survey.mfit3, c("chisq","pvalue","cfi", "tli","rmsea", "srmr")))
  print(modindices(survey.mfit3,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.mfit3))
  print(summary(survey.mfit3, standardized=T, rsquare=T, fit.measures=T))
 invisible(semPaths(paste0("C:\\Users\\pamel\\Documents\\ESS\\MPLUS\\mcfa",r,".out"), "model", "std", n
           style = "lisrel", edge.label.cex = 0.8, intercepts = FALSE, layout = "tree",
                     groups = "latent", pastel = TRUE, exoCov = FALSE, optimizeLatRes = TRUE, ask = FAL
}
## [1] "ESS round: 8"
     chisq pvalue
                       cfi
                               tli
                                     rmsea
                                              srmr
## 302.126
            0.000
                     0.987
                             0.977
                                     0.034
                                             0.077
##
           lhs op
                         rhs block group level
                                                    mi
                                                          epc sepc.lv
## 49 iplylfr_r ~~ impenv_r
                                 1
                                       1
                                             1 164.703 0.062
                                                                0.062
## 52 ipudrst_r ~~
                    impenv_r
                                 1
                                       1
                                             1 147.447 -0.081
                                                               -0.081
       Benev_w =~ impenv_r
                                       1
                                             1 107.544 0.787
                                                                0.498
                                 1
## 50 ipeqopt_r ~~ ipudrst_r
                                             1 104.797 0.060
                                 1
                                       1
                                                                0.060
## 47 iplylfr_r ~~ ipeqopt_r
                                 1
                                       1
                                             1 82.852 -0.043 -0.043
                                               40.620 0.034
## 45 iphlppl_r ~~ ipudrst_r
                                 1
                                       1
                                             1
                                                                0.034
## 48 iplylfr_r ~~ ipudrst_r
                                       1
                                             1 34.843 -0.029
                                                               -0.029
                                 1
## 46 iphlppl_r ~~ impenv_r
                                 1
                                       1
                                             1 10.466 -0.017
                                                               -0.017
## 41
       Unive_w =~ iphlppl_r
                                             1
                                                 9.554 0.036
                                                                0.020
                                 1
                                       1
## 1
        Benev_w =~ iphlppl_r
                                       1
                                             1
                                                 9.535 0.031
                                                                0.020
##
      sepc.all sepc.nox
## 49
        0.111
                 0.111
## 52
       -0.116
                -0.116
## 40
        0.486
                 0.486
## 50
        0.084
                 0.084
## 47
       -0.073
                -0.073
## 45
        0.061
                 0.061
## 48
       -0.054
                -0.054
       -0.029
                -0.029
## 46
## 41
        0.021
                 0.021
## 1
         0.021
                 0.021
             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
                                               4.827
## $within
```

```
## $within$cov
            iphlp_ iplyl_ ipqpt_ ipdrs_ impnv_
##
## iphlppl r 0.873
## iplylfr_r 0.352 0.744
## ipeqopt_r 0.310 0.273 1.072
## ipudrst r 0.340 0.299 0.329 1.022
## impenv r 0.320 0.282 0.310 0.340 1.048
##
## $within$mean
## iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r
             0.00 0.00 0.00
                                               4.83
##
##
## $cntry
## $cntry$cov
##
            iphlp_ iplyl_ ipqpt_ ipdrs_
## iphlppl_r 0.052
## iplylfr r 0.034 0.044
## ipeqopt_r 0.039 0.033 0.052
## ipudrst_r 0.041 0.035 0.032 0.038
##
## $cntry$mean
## iphlppl_r iplylfr_r ipeqopt_r ipudrst_r
      4.832
             5.073
                          4.826
##
## lavaan 0.6-5 ended normally after 105 iterations
##
##
    Estimator
                                                      ML
    Optimization method
                                                  NLMINB
##
##
     Number of free parameters
                                                      21
##
##
                                                               Total
                                                    Used
    Number of observations
                                                               28080
##
                                                   27533
    Number of clusters [cntry]
##
                                                      14
    Sampling weights variable
##
                                                 dweight
##
## Model Test User Model:
                                                Standard
##
                                                              Robust
##
    Test Statistic
                                                 302.126
                                                              62.270
##
    Degrees of freedom
    P-value (Chi-square)
##
                                                   0.000
                                                               0.000
    Scaling correction factor
                                                               4.852
##
      for the Yuan-Bentler correction (Mplus variant)
## Model Test Baseline Model:
##
##
    Test statistic
                                               22877.617
                                                            4733.238
##
    Degrees of freedom
                                                      16
                                                                  16
##
    P-value
                                                   0.000
                                                               0.000
##
    Scaling correction factor
                                                               4.833
##
## User Model versus Baseline Model:
##
```

```
0.987
                                                                 0.989
##
     Comparative Fit Index (CFI)
     Tucker-Lewis Index (TLI)
##
                                                     0.977
                                                                 0.980
##
##
     Robust Comparative Fit Index (CFI)
                                                                 0.989
     Robust Tucker-Lewis Index (TLI)
##
                                                                 0.980
##
## Loglikelihood and Information Criteria:
##
##
     Loglikelihood user model (HO)
                                              -180486.917 -180486.917
##
     Scaling correction factor
                                                                15.074
##
         for the MLR correction
##
     Loglikelihood unrestricted model (H1)
                                               -180335.854 -180335.854
     Scaling correction factor
##
                                                                12,007
##
         for the MLR correction
##
##
     Akaike (AIC)
                                                361015.833 361015.833
##
     Bayesian (BIC)
                                                361188.519 361188.519
##
     Sample-size adjusted Bayesian (BIC)
                                                361121.782 361121.782
##
## Root Mean Square Error of Approximation:
##
##
     RMSEA
                                                     0.034
                                                                 0.015
     90 Percent confidence interval - lower
                                                     0.031
                                                                 0.013
##
##
     90 Percent confidence interval - upper
                                                     0.038
                                                                 0.016
     P-value RMSEA <= 0.05
##
                                                     1.000
                                                                 1.000
##
##
     Robust RMSEA
                                                                 0.032
##
     90 Percent confidence interval - lower
                                                                 0.025
     90 Percent confidence interval - upper
                                                                 0.040
##
## Standardized Root Mean Square Residual (corr metric):
##
     SRMR (within covariance matrix)
                                                     0.018
                                                                 0.018
##
                                                     0.059
                                                                 0.059
##
     SRMR (between covariance matrix)
##
## Parameter Estimates:
##
##
     Information
                                                       Observed
     Observed information based on
##
                                                        Hessian
     Standard errors
                                             Robust.huber.white
##
##
##
## Level 1 [within]:
##
## Latent Variables:
                      Estimate Std.Err z-value P(>|z|)
                                                             Std.lv Std.all
##
     Benev_w =~
##
##
       iphlppl_r
                         1.000
                                                              0.632
                                                                       0.677
##
       iplylfr_r
                         0.881
                                  0.048 18.338
                                                     0.000
                                                              0.557
                                                                       0.646
##
     Unive_w =~
##
       ipeqopt_r
                         1.000
                                                              0.548
                                                                       0.529
                         1.097
                                                              0.601
                                                                       0.594
##
                                  0.036
                                           30.526
                                                     0.000
       ipudrst_r
##
       impenv_r
                         1.032
                                  0.052
                                           19.788
                                                     0.000
                                                              0.565
                                                                       0.552
##
```

##	Covariances:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev_w ~~						
##	Unive_w	0.310	0.010	32.550	0.000	0.895	0.895
##							
##	Intercepts:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	$.\mathtt{iphlppl}_\mathtt{r}$	0.000				0.000	0.000
##	.iplylfr_r	0.000				0.000	0.000
##	.ipeqopt_r	0.000				0.000	0.000
##	.ipudrst_r	0.000	0 040	444 744	0 000	0.000	0.000
##	.impenv_r	4.830	0.043	111.744	0.000	4.830	4.717
##	Benev_w	0.000				0.000	0.000
## ##	Unive_w	0.000				0.000	0.000
##	Variances:						
##	variances.	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Unive w	0.300	Dua.LII	Z varuc	1 (7 2)	1.000	1.000
##	Benev_w	0.400				1.000	1.000
##	.iphlppl_r	0.473	0.034	14.119	0.000	0.473	0.542
##	.iplylfr_r	0.434	0.023	18.989	0.000	0.434	0.583
##	.ipeqopt_r	0.772	0.043	17.997	0.000	0.772	0.720
##	.ipudrst_r	0.661	0.026	25.074	0.000	0.661	0.647
##	.impenv_r	0.729	0.062	11.743	0.000	0.729	0.695
##							
##	R-Square:						
##		Estimate					
##	iphlppl_r	0.458					
##	iplylfr_r	0.417					
##	ipeqopt_r	0.280					
##	ipudrst_r	0.353					
##	impenv_r	0.305					
##							
##	Level 2 [cntry]:						
##	Level 2 [Chtry].						
	Latent Variables:						
##	Latent variables.	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev_b =~						
##	iphlppl_r	1.000				0.200	0.880
##	iplylfr_r	0.854	0.138	6.184	0.000	0.171	0.819
##	Unive_b =~						
##	ipeqopt_r	1.000				0.173	0.759
##	ipudrst_r	1.066	0.180	5.938	0.000	0.185	0.949
##							
##	Covariances:				- 4 1 13		
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev_b ~~						
##	Unive_b	0.039	0.002	16.799	0.000	1.116	1.116
##	Intercents						
##	Intercepts:	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.iphlppl_r	4.832	0.063	76.182	0.000	4.832	21.263
##	.iplylfr_r	5.073	0.055	91.918	0.000	5.073	24.321
	·-r-J	3.0.0	0.000	01.010	0.000	0.0.0	21.021

```
0.058
                                             82.614
                                                        0.000
                                                                           21.138
##
      .ipeqopt_r
                           4.826
                                                                  4.826
                           4.659
                                    0.056
                                             83.642
                                                        0.000
                                                                           23.936
##
       .ipudrst_r
                                                                  4.659
##
                           0.000
                                                                  0.000
                                                                           0.000
       Benev b
##
       Unive_b
                           0.000
                                                                  0.000
                                                                            0.000
##
##
   Variances:
##
                       Estimate
                                  Std.Err z-value P(>|z|)
                                                                 Std.lv
                                                                         Std.all
                           0.030
##
       Unive b
                                                                  1.000
                                                                            1.000
##
       Benev_b
                           0.040
                                                                  1.000
                                                                            1.000
##
      .iphlppl_r
                           0.012
                                    0.004
                                              3.140
                                                        0.002
                                                                  0.012
                                                                            0.226
                                    0.007
##
      .iplylfr_r
                           0.014
                                              2.196
                                                        0.028
                                                                  0.014
                                                                            0.330
##
                           0.022
                                    0.009
                                              2.363
                                                        0.018
                                                                  0.022
                                                                            0.424
      .ipeqopt_r
##
                           0.004
                                    0.004
                                              0.922
                                                        0.357
                                                                  0.004
                                                                            0.100
      .ipudrst_r
##
   R-Square:
##
##
                       Estimate
##
                           0.774
       iphlppl_r
                           0.670
##
       iplylfr_r
                           0.576
##
       ipeqopt_r
                           0.900
##
       ipudrst r
##
##
   $FIT
##
                                                              fmin
                              npar
                            21.000
                                                              1.961
##
##
                             chisq
                                                                 df
##
                           302.126
                                                             9.000
##
                            pvalue
                                                      chisq.scaled
##
                             0.000
                                                            62.270
##
                         df.scaled
                                                     pvalue.scaled
##
                             9.000
                                                              0.000
##
             chisq.scaling.factor
                                                    baseline.chisq
##
                             4.852
                                                         22877.617
##
                      baseline.df
                                                   baseline.pvalue
##
                            16.000
                                                              0.000
##
            baseline.chisq.scaled
                                               baseline.df.scaled
##
                          4733.238
                                                             16.000
##
          baseline.pvalue.scaled baseline.chisq.scaling.factor
##
                             0.000
                                                              4.833
##
                               cfi
                                                                tli
##
                             0.987
                                                              0.977
##
                       cfi.scaled
                                                        tli.scaled
##
                             0.989
                                                              0.980
##
                       cfi.robust
                                                        tli.robust
##
                             0.989
                                                              0.980
##
                                                unrestricted.log1
                              logl
                                                       -180335.854
##
                      -180486.917
##
                               aic
                                                                bic
##
                       361015.833
                                                        361188.519
##
                            ntotal
                                                              bic2
                         27533.000
##
                                                        361121.782
##
                scaling.factor.h1
                                                scaling.factor.h0
##
                            12.007
                                                            15.074
##
                             rmsea
                                                    rmsea.ci.lower
##
                             0.034
                                                              0.031
```

```
##
                                                   rmsea.pvalue
                  rmsea.ci.upper
                            0.038
                                                           1.000
##
                    rmsea.scaled
##
                                          rmsea.ci.lower.scaled
                            0.015
                                                           0.013
##
##
           rmsea.ci.upper.scaled
                                            rmsea.pvalue.scaled
##
                            0.016
                                                           1.000
##
                    rmsea.robust
                                          rmsea.ci.lower.robust
##
                            0.032
                                                           0.025
##
           rmsea.ci.upper.robust
                                            rmsea.pvalue.robust
##
                            0.040
                                                              NA
##
                             srmr
                                                    srmr_within
                            0.077
                                                           0.018
##
##
                    srmr_between
##
                            0.059
##
##
   $PE
##
            lhs op
                         rhs block level exo
                                                       est
##
        Benev w =~ iphlppl r
                                            0 1.00000000 0.000000000
  1
                                            0 0.880662110 0.048023239
##
  2
        Benev_w =~ iplylfr_r
                                  1
                                        1
##
  3
        Unive w =~ ipeqopt r
                                            0 1.000000000 0.000000000
## 4
        Unive_w =~ ipudrst_r
                                  1
                                            0 1.096615048 0.035923583
## 5
                                            0 1.032032740 0.052154831
        Unive w =~
                    impenv_r
## 6
                                            0 0.309910904 0.009521019
        Benev_w ~~
                     Unive_w
                                        1
                                  1
## 7
                                            0 0.30000000 0.000000000
        Unive w ~~
                     Unive w
                                  1
                                            0 0.40000000 0.000000000
## 8
        Benev_w ~~
                     Benev w
## 9
      iphlppl_r ~~ iphlppl_r
                                            0 0.473045754 0.033503931
## 10 iplylfr_r ~~ iplylfr_r
                                            0 0.434203876 0.022865805
                                  1
                                        1
                                            0 0.772200301 0.042908046
## 11 ipeqopt_r ~~ ipeqopt_r
                                  1
## 12 ipudrst_r ~~ ipudrst_r
                                            0 0.660762747 0.026352885
       impenv_r ~~
                                        1
                                            0 0.728961566 0.062076669
## 13
                    impenv_r
                                  1
## 14 iphlppl_r ~1
                                        1
                                            0 0.00000000 0.00000000
## 15
      iplylfr_r ~1
                                  1
                                        1
                                            0 0.00000000 0.000000000
      ipeqopt_r ~1
                                            0 0.00000000 0.00000000
                                            0 0.00000000 0.00000000
      ipudrst_r ~1
  17
                                  1
                                        1
       impenv_r ~1
##
   18
                                            0 4.830421618 0.043227663
## 19
                                            0 0.00000000 0.000000000
        Benev_w ~1
                                  1
                                        1
## 20
        Unive w ~1
                                            0 0.00000000 0.00000000
## 21
        Benev_b =~ iphlppl_r
                                        2
                                            0 1.00000000 0.000000000
## 22
        Benev_b =~ iplylfr_r
                                        2
                                            0 0.853861565 0.138068908
##
  23
                                        2
                                            0 1.00000000 0.00000000
        Unive_b =~ ipeqopt_r
  24
                                            0 1.066069140 0.179532779
        Unive b =~ ipudrst r
## 25
        Benev b ~~
                                  2
                                        2
                                            0 0.038644002 0.002300400
                     Unive b
                     Unive b
                                  2
                                        2
                                            0 0.030000000 0.000000000
## 26
        Unive b ~~
                                        2
                                            0 0.04000000 0.000000000
## 27
        Benev_b ~~
                     Benev_b
                                        2
                                            0 0.011647583 0.003709926
## 28 iphlppl_r ~~ iphlppl_r
                                  2
                                        2
## 29 iplylfr_r ~~ iplylfr_r
                                            0 0.014342563 0.006530918
                                        2
## 30 ipeqopt_r ~~ ipeqopt_r
                                  2
                                            0 0.022127304 0.009365314
                                  2
      ipudrst_r ~~ ipudrst_r
                                            0 0.003786523 0.004106944
      iphlppl_r ~1
  32
                                  2
                                        2
                                            0 4.832242342 0.063430248
                                  2
                                        2
## 33
      iplylfr_r ~1
                                            0 5.072877440 0.055188882
                                  2
                                        2
                                            0 4.826099553 0.058417168
## 34
      ipeqopt_r ~1
                                        2
                                  2
## 35 ipudrst_r ~1
                                            0 4.658740581 0.055698758
## 36
        Benev b ~1
                                  2
                                        2
                                            0 0.00000000 0.00000000
                                  2
                                            0 0.00000000 0.000000000
## 37
        Unive b ~1
```

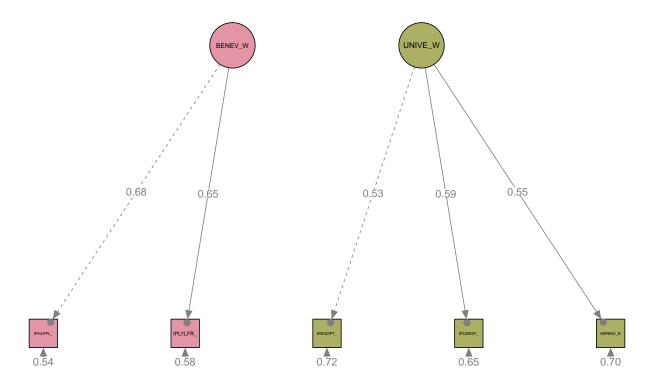
```
## 38 iphlppl_r r2 iphlppl_r
                                             0 0.458166136
                                                                      NA
                                   1
                                         1
                                                                      NΑ
## 39 iplylfr_r r2 iplylfr_r
                                             0 0.416729883
                                   1
                                         1
  40 ipeqopt_r r2 ipeqopt_r
                                              0 0.279798467
                                                                      NA
                                             0 0.353164980
                                                                      NA
  41 ipudrst_r r2 ipudrst_r
                                   1
                                         1
##
  42
       impenv_r r2 impenv_r
                                   1
                                         1
                                             0 0.304750418
                                                                      NΑ
                                         2
   43 iphlppl_r r2 iphlppl_r
                                   2
                                             0 0.774479618
                                                                      NA
                                         2
## 44 iplylfr_r r2 iplylfr_r
                                   2
                                             0 0.670329454
                                                                      NA
## 45 ipeqopt_r r2 ipeqopt_r
                                   2
                                         2
                                             0 0.575514127
                                                                      NA
   46 ipudrst_r r2 ipudrst_r
                                   2
                                         2
                                              0 0.900043279
                                                                      NA
##
                         pvalue
                                      std.lv
                                                  std.all
                                                               std.nox
                 z
##
  1
               NA
                              NA 0.632455532
                                               0.67687971
                                                           0.67687971
   2
##
       18.3382489
                  0.000000e+00 0.556979623
                                               0.64554619
                                                           0.64554619
                                               0.52895980
##
   3
               NA
                              NA 0.547722558
                                                           0.52895980
##
       30.5263270 0.000000e+00 0.600640799
                                               0.59427685
                                                           0.59427685
  5
       19.7878647 0.000000e+00 0.565267612
##
                                               0.55204204
                                                           0.55204204
##
   6
       32.5501813 0.000000e+00 0.894635721
                                               0.89463572
                                                           0.89463572
   7
##
               NA
                             NA 1.000000000
                                               1.00000000
                                                           1.00000000
##
  8
               NA
                             NA 1.000000000
                                               1.00000000
                                                           1.00000000
##
  9
       14.1191120 0.000000e+00 0.473045754
                                               0.54183386
                                                           0.54183386
##
   10
       18.9892233 0.000000e+00 0.434203876
                                               0.58327012
                                                           0.58327012
##
   11
       17.9966317 0.000000e+00 0.772200301
                                               0.72020153
                                                           0.72020153
       25.0736402 0.000000e+00 0.660762747
                                               0.64683502
                                                           0.64683502
       11.7429234 0.000000e+00 0.728961566
##
  13
                                               0.69524958
                                                           0.69524958
##
   14
               NA
                             NA 0.00000000
                                               0.0000000
                                                           0.0000000
                                               0.0000000
##
  15
               NA
                             NA 0.00000000
                                                           0.00000000
  16
               NA
                             NA 0.00000000
                                               0.0000000
                                                           0.0000000
##
   17
               NA
                             NA 0.00000000
                                               0.0000000
                                                           0.0000000
##
   18
      111.7437608
                  0.000000e+00 4.830421618
                                               4.71740423
                                                           4.71740423
##
   19
               NA
                              NA 0.000000000
                                               0.0000000
                                                           0.0000000
##
  20
               NA
                             NA 0.00000000
                                               0.0000000
                                                           0.0000000
##
  21
                NA
                             NA 0.20000000
                                               0.88004524
                                                           0.88004524
##
   22
        6.1843146 6.237286e-10 0.170772313
                                               0.81873650
                                                           0.81873650
##
   23
                NA
                              NA 0.173205081
                                               0.75862647
                                                           0.75862647
##
   24
        5.9380195
                  2.884857e-09 0.184648592
                                               0.94870611
                                                           0.94870611
##
   25
       16.7988209
                   0.000000e+00 1.115556242
                                               1.11555624
                                                           1.11555624
##
   26
               NΑ
                             NA 1.00000000
                                               1.00000000
                                                           1.00000000
##
   27
                             NA 1.000000000
                                               1.00000000
                                                           1.00000000
##
  28
        3.1395729 1.691943e-03 0.011647583
                                               0.22552038
                                                           0.22552038
   29
        2.1961022 2.808463e-02 0.014342563
##
                                               0.32967055
                                                           0.32967055
        2.3626869 1.814299e-02 0.022127304
##
   30
                                               0.42448587
                                                           0.42448587
   31
        0.9219807 3.565387e-01 0.003786523
                                               0.09995672
                                                           0.09995672
       76.1819875 0.000000e+00 4.832242342
                                             21.26295928 21.26295928
##
   32
##
   33
       91.9184676 0.000000e+00 5.072877440
                                             24.32097943 24.32097943
##
   34
       82.6144048 0.000000e+00 4.826099553
                                             21.13798782 21.13798782
       83.6417317 0.000000e+00 4.658740581 23.93614599 23.93614599
##
   35
##
   36
                             NA 0.00000000
                                               0.0000000
                                                           0.0000000
               NA
##
   37
               NA
                                 0.00000000
                                               0.0000000
                                                           0.0000000
  38
##
               NA
                             NA
                                          NA
                                                       NA
                                                                    NA
##
   39
               NΑ
                             NΑ
                                          NΑ
                                                       NA
                                                                    NA
##
   40
                NA
                              NA
                                          NA
                                                       NA
                                                                    NA
##
  41
               NA
                             NA
                                          NA
                                                       NA
                                                                    NA
## 42
               NA
                             NA
                                          NA
                                                       NA
                                                                    NA
## 43
                             NΑ
                                          ΝA
                                                       NΑ
                                                                    NΑ
               NΑ
## 44
                              NA
                                                                    NA
                NΑ
                                                       NΑ
```

45 NA NA NA NA NA NA NA

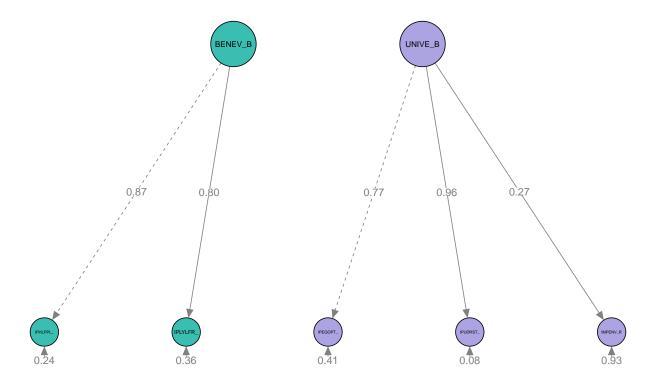
##

Reading model: C:\Users\pamel\Documents\ESS\MPLUS\mcfa8.out

Within



Between



```
## [1] "ESS round: 9"
     chisq pvalue
                       cfi
##
                               tli
                                     rmsea
                                              srmr
## 343.920
           0.000
                     0.984
                             0.972
                                     0.037
                                             0.053
##
           lhs op
                         rhs block group level
                                                           epc sepc.lv
                                                    mi
## 49 iplylfr_r ~~
                                             1 288.795 0.081
                                                                0.081
                    impenv_r
                                       1
## 40
       Benev_w =~
                    impenv_r
                                       1
                                             1 157.709 1.131
                                                                 0.716
                                 1
## 47 iplylfr_r ~~ ipeqopt_r
                                                94.255 -0.045
                                                               -0.045
## 50 ipeqopt_r ~~ ipudrst_r
                                 1
                                       1
                                                82.317 0.053
                                                                0.053
## 52 ipudrst_r ~~ impenv_r
                                 1
                                       1
                                                81.749 -0.058
                                                               -0.058
## 48 iplylfr_r ~~ ipudrst_r
                                               36.650 -0.029
                                                               -0.029
                                 1
                                       1
                                             1
## 46 iphlppl_r ~~ impenv_r
                                 1
                                       1
                                               29.750 -0.028
                                                               -0.028
                                                               -0.038
       Benev_w =~ ipeqopt_r
                                             1 29.312 -0.061
## 38
                                 1
                                       1
## 45 iphlppl_r ~~ ipudrst_r
                                 1
                                       1
                                             1
                                               27.002 0.028
                                                                0.028
## 7
       Unive_w ~~
                    Unive_w
                                 1
                                       1
                                             1 18.908 -0.034 -1.000
##
      sepc.all sepc.nox
         0.150
                  0.150
## 49
## 40
         0.723
                  0.723
## 47
        -0.079
                -0.079
## 50
        0.074
                  0.074
## 52
        -0.086
                 -0.086
## 48
        -0.055
                 -0.055
## 46
        -0.051
                 -0.051
        -0.037
                 -0.037
## 38
## 45
        0.050
                  0.050
## 7
        -1.000
                -1.000
##
             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
                5.099
      4.847
                          4.821
                                  4.667
## $within
## $within$cov
            iphlp_ iplyl_ ipqpt_ ipdrs_ impnv_
## iphlppl_r 0.864
## iplylfr_r 0.347 0.729
## ipeqopt_r 0.316 0.274 1.073
## ipudrst_r 0.336 0.291 0.319 1.003
## impenv_r 0.320 0.278 0.304 0.323 0.979
##
## $within$mean
## iphlppl_r iplylfr_r ipeqopt_r ipudrst_r impenv_r
      0.000 0.000 0.000 0.000
##
##
## $cntry
## $cntry$cov
##
            iphlp_iplyl_ipqpt_ipdrs_
## iphlppl_r 0.050
## iplylfr_r 0.024 0.033
## ipeqopt_r 0.040 0.024 0.054
## ipudrst_r 0.037 0.022 0.028 0.032
##
## $cntry$mean
## iphlppl_r iplylfr_r ipeqopt_r ipudrst_r
##
      4.864
              5.110 4.837
                                  4.685
##
## lavaan 0.6-5 ended normally after 110 iterations
##
##
    Estimator
                                                     ML
##
    Optimization method
                                                  NLMINB
##
    Number of free parameters
                                                      21
##
##
                                                   Used
                                                              Total
##
    Number of observations
                                                  26814
                                                              27540
##
    Number of clusters [cntry]
                                                     14
    Sampling weights variable
                                                dweight
##
## Model Test User Model:
##
                                                Standard
                                                             Robust
    Test Statistic
##
                                                343.920
                                                             99.503
##
    Degrees of freedom
                                                      9
                                                              0.000
##
    P-value (Chi-square)
                                                  0.000
##
    Scaling correction factor
                                                              3.456
##
      for the Yuan-Bentler correction (Mplus variant)
##
```

```
## Model Test Baseline Model:
##
                                                 21178.786
##
     Test statistic
                                                              3377.792
     Degrees of freedom
##
                                                        16
                                                                    16
                                                                 0.000
##
     P-value
                                                     0.000
##
     Scaling correction factor
                                                                 6.270
##
## User Model versus Baseline Model:
##
##
     Comparative Fit Index (CFI)
                                                     0.984
                                                                 0.973
##
     Tucker-Lewis Index (TLI)
                                                     0.972
                                                                 0.952
##
     Robust Comparative Fit Index (CFI)
                                                                 0.985
##
     Robust Tucker-Lewis Index (TLI)
                                                                 0.974
##
##
## Loglikelihood and Information Criteria:
##
                                            -173636.322 -173636.322
##
     Loglikelihood user model (HO)
##
     Scaling correction factor
                                                                13.957
         for the MLR correction
##
##
    Loglikelihood unrestricted model (H1)
                                              -173464.362 -173464.362
##
     Scaling correction factor
                                                                10.807
##
         for the MLR correction
##
     Akaike (AIC)
##
                                                347314.645 347314.645
##
     Bayesian (BIC)
                                                347486.775 347486.775
##
     Sample-size adjusted Bayesian (BIC)
                                                347420.037 347420.037
## Root Mean Square Error of Approximation:
##
##
     RMSEA
                                                     0.037
                                                                 0.019
##
     90 Percent confidence interval - lower
                                                     0.034
                                                                 0.018
     90 Percent confidence interval - upper
                                                     0.041
##
                                                                 0.021
     P-value RMSEA <= 0.05
##
                                                     1.000
                                                                 1.000
##
    Robust RMSEA
##
                                                                 0.036
##
     90 Percent confidence interval - lower
                                                                 0.030
##
     90 Percent confidence interval - upper
                                                                 0.043
##
## Standardized Root Mean Square Residual (corr metric):
##
##
     SRMR (within covariance matrix)
                                                     0.021
                                                                 0.021
     SRMR (between covariance matrix)
                                                     0.032
                                                                 0.032
##
##
## Parameter Estimates:
##
     Information
                                                       Observed
##
##
     Observed information based on
                                                        Hessian
##
     Standard errors
                                             Robust.huber.white
##
## Level 1 [within]:
##
## Latent Variables:
```

##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev_w =~						
##	iphlppl_r	1.000				0.632	0.680
##	iplylfr_r	0.868	0.050	17.318	0.000	0.549	0.643
##	Unive_w =~						
##	ipeqopt_r	1.000				0.548	0.529
##	ipudrst_r	1.063	0.033	32.606	0.000	0.582	0.581
##	${\tt impenv_r}$	1.014	0.063	16.156	0.000	0.556	0.561
##							
##	Covariances:		~	_	56.1.13	a	a
##	D	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev_w ~~	0.216	0 014	02 000	0 000	0.010	0.010
##	Unive_w	0.316	0.014	23.026	0.000	0.912	0.912
##	Intonconta						
## ##	Intercepts:	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.iphlppl_r	0.000	Stu.EII	Z-varue	F(> Z)	0.000	0.000
##	.iplylfr_r	0.000				0.000	0.000
##	.ipiyiii_i .ipeqopt_r	0.000				0.000	0.000
##	.ipudrst_r	0.000				0.000	0.000
##	.impenv_r	5.002	0.036	137.441	0.000	5.002	5.056
##	Benev_w	0.000	0.030	137.441	0.000	0.000	0.000
##	Unive_w	0.000				0.000	0.000
##	oui.ve_m	0.000				0.000	0.000
	Variances:						
##	var rancos.	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Unive_w	0.300	204122		- (1-1)	1.000	1.000
##	Benev_w	0.400				1.000	1.000
##	.iphlppl_r	0.464	0.037	12.471	0.000	0.464	0.537
##	.iplylfr_r	0.427	0.023	18.685	0.000	0.427	0.586
##	.ipeqopt_r	0.773	0.043	17.933	0.000	0.773	0.720
##	.ipudrst_r	0.665	0.031	21.777	0.000	0.665	0.662
##	.impenv_r	0.670	0.047	14.254	0.000	0.670	0.685
##							
##	R-Square:						
##		Estimate					
##	iphlppl_r	0.463					
##	iplylfr_r	0.414					
##	${\tt ipeqopt_r}$	0.280					
##	ipudrst_r	0.338					
##	impenv_r	0.315					
##							
##							
	Level 2 [cntry]:						
##							
	Latent Variables:		G. 1 E	,	D(>)	Q. 1. 7	Q. 1 77
##	Damas- 1-	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev_b =~	1 000				0 000	0.007
##	iphlppl_r	1.000	0 147	A 160	0 000	0.200	0.897
## ##	iplylfr_r Unive_b =~	0.611	0.147	4.163	0.000	0.122	0.670
##	<pre>unive_b =~ ipeqopt_r</pre>	1.000				0.173	0.748
##	ipudrst_r	0.919	0.218	4.216	0.000	0.173	0.746
##	Thuarer_r	0.313	0.210	7.210	0.000	0.109	0.000
πт							

```
## Covariances:
                       Estimate Std.Err z-value P(>|z|)
##
                                                                Std.lv Std.all
##
     Benev b ~~
##
       Unive_b
                          0.040
                                    0.003
                                             13.548
                                                        0.000
                                                                 1.147
                                                                           1.147
##
##
   Intercepts:
##
                       Estimate
                                  Std.Err z-value
                                                    P(>|z|)
                                                                Std.lv
                                                                         Std.all
                          4.864
                                    0.068
                                             71.915
                                                        0.000
                                                                 4.864
                                                                          21.815
##
      .iphlppl_r
##
      .iplylfr_r
                          5.110
                                    0.053
                                             96.924
                                                        0.000
                                                                 5.110
                                                                          28.030
##
                          4.837
                                    0.062
                                             78.282
                                                        0.000
                                                                          20.891
      .ipeqopt_r
                                                                 4.837
      .ipudrst_r
                           4.685
                                    0.057
                                             82.072
                                                        0.000
                                                                 4.685
                                                                          26.080
                           0.000
                                                                           0.000
##
       Benev_b
                                                                 0.000
                           0.000
                                                                 0.000
                                                                           0.000
##
       Unive_b
##
##
   Variances:
##
                       Estimate
                                  Std.Err z-value P(>|z|)
                                                                Std.lv
                                                                         Std.all
##
       Unive_b
                           0.030
                                                                 1.000
                                                                           1.000
                           0.040
                                                                           1.000
##
       Benev_b
                                                                 1.000
                          0.010
##
                                    0.004
                                              2.475
                                                        0.013
                                                                 0.010
                                                                           0.195
      .iphlppl_r
                                    0.006
##
      .iplylfr_r
                          0.018
                                              3.167
                                                        0.002
                                                                 0.018
                                                                           0.551
##
      .ipeqopt_r
                          0.024
                                    0.011
                                              2.105
                                                        0.035
                                                                 0.024
                                                                           0.440
##
      .ipudrst_r
                           0.007
                                    0.005
                                              1.328
                                                        0.184
                                                                 0.007
                                                                           0.214
##
## R-Square:
                       Estimate
##
##
       iphlppl_r
                          0.805
##
       iplylfr_r
                           0.449
##
                           0.560
       ipeqopt_r
##
       ipudrst_r
                           0.786
   $FIT
##
##
                              npar
                                                              fmin
##
                                                             1.881
                            21.000
##
                                                                df
                             chisq
##
                           343.920
                                                             9.000
                            pvalue
##
                                                      chisq.scaled
##
                             0.000
                                                            99.503
##
                        df.scaled
                                                    pvalue.scaled
##
                             9.000
                                                             0.000
##
             chisq.scaling.factor
                                                   baseline.chisq
##
                             3.456
                                                         21178.786
##
                      baseline.df
                                                  baseline.pvalue
##
                            16.000
                                                             0.000
##
           baseline.chisq.scaled
                                               baseline.df.scaled
##
                          3377.792
##
          baseline.pvalue.scaled baseline.chisq.scaling.factor
##
                             0.000
                                                             6.270
##
                               cfi
                                                               tli
##
                             0.984
                                                             0.972
##
                       cfi.scaled
                                                        tli.scaled
##
                             0.973
                                                             0.952
##
                       cfi.robust
                                                        tli.robust
##
                             0.985
                                                             0.974
##
                              logl
                                                unrestricted.logl
```

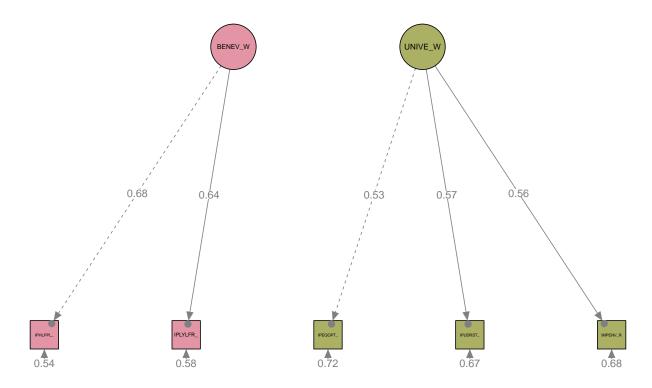
```
##
                     -173636.322
                                                    -173464.362
##
                             aic
                                                            bic
##
                      347314.645
                                                     347486.775
##
                                                           bic2
                          ntotal
##
                       26814.000
                                                     347420.037
##
               scaling.factor.h1
                                             scaling.factor.h0
                          10.807
                                                         13.957
##
##
                           rmsea
                                                 rmsea.ci.lower
##
                            0.037
                                                           0.034
##
                  rmsea.ci.upper
                                                   rmsea.pvalue
                           0.041
                                                          1.000
                    rmsea.scaled
##
                                          rmsea.ci.lower.scaled
##
                            0.019
                                                           0.018
                                            rmsea.pvalue.scaled
##
           rmsea.ci.upper.scaled
##
                            0.021
                                                           1.000
##
                    rmsea.robust
                                          rmsea.ci.lower.robust
                            0.036
##
                                                           0.030
##
           rmsea.ci.upper.robust
                                            rmsea.pvalue.robust
##
                            0.043
                                                              NA
##
                            srmr
                                                    srmr within
##
                            0.053
                                                          0.021
##
                    srmr between
##
                            0.032
##
   $PE
##
            lhs op
                         rhs block level exo
                                                      est
## 1
                                  1
                                        1
                                            0 1.00000000 0.000000000
        Benev_w =~ iphlppl_r
                                            0 0.868109816 0.050127112
##
  2
        Benev_w =~ iplylfr_r
  3
                                            0 1.00000000 0.000000000
##
        Unive_w =~ ipeqopt_r
                                            0 1.062500608 0.032585941
## 4
        Unive_w =~ ipudrst_r
                                 1
## 5
        Unive_w =~
                   impenv_r
                                        1
                                            0 1.014274273 0.062779262
##
   6
        Benev_w ~~
                     Unive_w
                                            0 0.315845474 0.013717048
                                            0 0.30000000 0.000000000
## 7
        Unive_w ~~
                     Unive_w
## 8
                                            0 0.40000000 0.00000000
        Benev_w ~~
                     Benev_w
                                  1
## 9
      iphlppl_r ~~ iphlppl_r
                                            0 0.464476877 0.037244654
                                            0 0.427100360 0.022858096
## 10 iplylfr_r ~~ iplylfr_r
                                  1
                                        1
## 11 ipeqopt r ~~ ipeqopt r
                                            0 0.772809083 0.043095326
## 12 ipudrst_r ~~ ipudrst_r
                                        1
                                            0 0.664548306 0.030515601
                                  1
       impenv_r ~~ impenv_r
                                            0 0.670278893 0.047022795
                                            0 0.00000000 0.00000000
## 14 iphlppl_r ~1
                                  1
## 15 iplylfr r ~1
                                            0 0.00000000 0.00000000
## 16 ipeqopt_r ~1
                                        1
                                            0 0.00000000 0.00000000
                                  1
                                            0 0.00000000 0.00000000
## 17 ipudrst r ~1
                                  1
                                            0 5.002200396 0.036395291
## 18
       impenv_r ~1
                                  1
## 19
        Benev_w ~1
                                            0 0.00000000 0.00000000
## 20
                                            0 0.00000000 0.00000000
        Unive_w ~1
                                        1
                                  1
  21
                                  2
                                            0 1.00000000 0.000000000
##
        Benev_b =~ iphlppl_r
##
  22
                                            0 0.610749989 0.146710903
        Benev_b =~ iplylfr_r
##
  23
        Unive_b =~ ipeqopt_r
                                  2
                                            0 1.00000000 0.000000000
## 24
                                  2
        Unive_b =~ ipudrst_r
                                            0 0.919311967 0.218052726
## 25
                                  2
                                        2
                                            0 0.039716304 0.002931592
        Benev_b ~~
                     Unive_b
## 26
                                            0 0.030000000 0.000000000
        Unive_b ~~
                     Unive_b
## 27
        Benev b ~~
                                 2
                                      2
                                            0 0.040000000 0.000000000
                     Benev b
                                            0 0.009709824 0.003923913
## 28 iphlppl_r ~~ iphlppl_r
```

```
## 29 iplylfr_r ~~ iplylfr_r
                                         2
                                             0 0.018310167 0.005781952
                                         2
                                             0 0.023610711 0.011218702
                                  2
## 30 ipeqopt_r ~~ ipeqopt_r
## 31 ipudrst r ~~ ipudrst r
                                             0 0.006911964 0.005203792
                                         2
                                  2
                                         2
                                             0 4.863767299 0.067632332
## 32 iphlppl_r ~1
##
   33 iplylfr_r ~1
                                  2
                                         2
                                             0 5.109629383 0.052717855
                                  2
                                         2
                                             0 4.837155557 0.061791366
   34 ipeqopt r ~1
                                  2
                                         2
   35 ipudrst r ~1
                                             0 4.684769827 0.057081236
##
  36
        Benev_b ~1
                                  2
                                         2
                                             0 0.00000000 0.00000000
##
   37
        Unive_b ~1
                                  2
                                         2
                                             0 0.00000000 0.00000000
##
   38 iphlppl_r r2 iphlppl_r
                                  1
                                         1
                                             0 0.462707576
                                                                     NA
   39 iplylfr_r r2 iplylfr_r
                                             0 0.413763537
                                                                     NA
                                  1
                                         1
      ipeqopt_r r2 ipeqopt_r
                                  1
                                         1
                                             0 0.279639691
                                                                     NA
                                             0 0.337585047
                                                                     NA
##
   41 ipudrst_r r2 ipudrst_r
                                  1
                                         1
       impenv_r r2 impenv_r
                                         1
                                             0 0.315276581
                                                                     NA
                                  2
                                         2
## 43 iphlppl_r r2 iphlppl_r
                                             0 0.804669919
                                                                     NΑ
## 44 iplylfr_r r2 iplylfr_r
                                  2
                                         2
                                             0 0.448999927
                                                                     NA
                                  2
                                         2
                                             0 0.559589666
                                                                     NΑ
   45 ipeqopt_r r2 ipeqopt_r
                                         2
                                             0 0.785781803
      ipudrst_r r2 ipudrst_r
##
                                               std.all
               z
                        pvalue
                                    std.lv
                                                           std.nox
##
   1
              NΑ
                            NA 0.632455532
                                             0.6802261
                                                        0.6802261
##
  2
       17.318169 0.000000e+00 0.549040856
                                             0.6432445
                                                        0.6432445
  3
                                             0.5288097
##
                            NA 0.547722558
                                                        0.5288097
##
  4
       32.606105 0.000000e+00 0.581955550
                                             0.5810207
                                                        0.5810207
##
   5
       16.156199 0.000000e+00 0.555540899
                                             0.5614950
                                                        0.5614950
       23.025761 0.000000e+00 0.911767347
                                             0.9117673
##
  6
                                                        0.9117673
##
  7
              NA
                            NA 1.000000000
                                             1.0000000
                                                        1.0000000
##
  8
              NA
                                             1.0000000
                            NA 1.00000000
                                                        1.0000000
       12.470968 0.000000e+00 0.464476877
##
   9
                                             0.5372924
                                                        0.5372924
       18.684861 0.000000e+00 0.427100360
                                             0.5862365
##
  10
                                                        0.5862365
##
       17.932550 0.000000e+00 0.772809083
                                             0.7203603
                                                        0.7203603
   11
##
   12
       21.777330 0.000000e+00 0.664548306
                                             0.6624150
                                                        0.6624150
##
   13
       14.254340 0.000000e+00 0.670278893
                                             0.6847234
                                                        0.6847234
##
   14
              NA
                            NA 0.00000000
                                             0.000000
                                                        0.0000000
##
  15
              NA
                            NA 0.00000000
                                             0.0000000
                                                        0.0000000
   16
                            NA 0.00000000
                                             0.000000
##
              NA
                                                        0.0000000
                                             0.0000000
##
   17
              NΑ
                            NA 0.00000000
                                                        0.0000000
      137.440869 0.000000e+00 5.002200396
                                             5.0558119
                                                        5.0558119
## 19
                                             0.0000000
              NΑ
                            NA 0.00000000
                                                        0.0000000
##
   20
                                             0.0000000
              NA
                            NA 0.00000000
                                                        0.0000000
  21
##
                            NA 0.20000000
                                             0.8970340
                                                        0.8970340
              NΑ
   22
        4.162949 3.141637e-05 0.122149998
                                             0.6700746
                                                        0.6700746
                                             0.7480573
##
   23
              NΑ
                            NA 0.173205081
                                                        0.7480573
##
   24
        4.216008 2.486653e-05 0.159229504
                                             0.8864433
                                                        0.8864433
       13.547692 0.000000e+00 1.146510931
##
   25
                                             1.1465109
                                                        1.1465109
##
   26
              NA
                            NA 1.00000000
                                             1.0000000
                                                        1.0000000
  27
##
              NA
                            NA 1.00000000
                                             1.0000000
                                                        1.0000000
##
   28
        2.474526 1.334132e-02 0.009709824
                                             0.1953301
                                                        0.1953301
##
   29
        3.166779 1.541372e-03 0.018310167
                                             0.5510001
                                                        0.5510001
##
   30
        2.104585 3.532745e-02 0.023610711
                                             0.4404103
                                                        0.4404103
##
   31
        1.328255 1.840938e-01 0.006911964
                                             0.2142182
                                                        0.2142182
##
   32
       71.914825 0.000000e+00 4.863767299 21.8148221 21.8148221
##
   33
       96.924075 0.000000e+00 5.109629383 28.0297402 28.0297402
##
  34
       78.282062 0.000000e+00 4.837155557 20.8912425 20.8912425
## 35
       82.071976 0.000000e+00 4.684769827 26.0804872 26.0804872
```

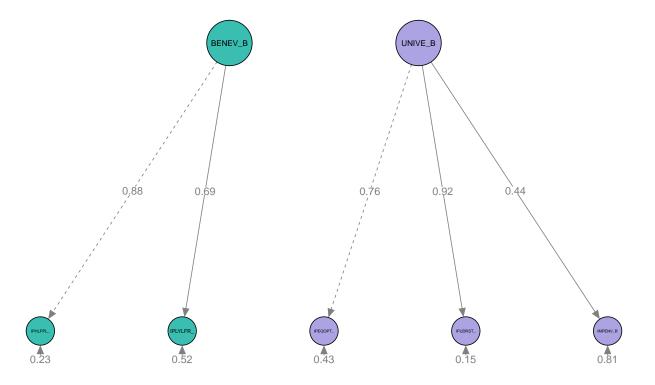
##	36	NA	NA	0.000000000	0.0000000	0.0000000
##	37	NA	NA	0.000000000	0.0000000	0.0000000
##	38	NA	NA	NA	NA	NA
##	39	NA	NA	NA	NA	NA
##	40	NA	NA	NA	NA	NA
##	41	NA	NA	NA	NA	NA
##	42	NA	NA	NA	NA	NA
##	43	NA	NA	NA	NA	NA
##	44	NA	NA	NA	NA	NA
##	45	NA	NA	NA	NA	NA
##	46	NA	NA	NA	NA	NA
##						

Reading model: C:\Users\pamel\Documents\ESS\MPLUS\mcfa9.out

Within



Between



Multilevel SEM

```
# Msemmodel <-'
# level: 1
# STrasc_w =~ iphlppl_r + iplylfr_r + ipeqopt_r + ipudrst_r + impenv_r
# STrasc_w ~ agea + gndrD + eisced2 + eisced3 + domicil2 + domicil3 + domicil4
# level: 2
\# STrasc\_b = "iphlppl\_r + iplylfr\_r + ipeqopt\_r + ipudrst\_r + impenv\_r"
# STrasc_b ~ HDI
# '
Msemmodel<-'
level: 1
Benev_w =~ iphlppl_r + iplylfr_r
Unive_w =~ ipeqopt_r + ipudrst_r + impenv_r
STrasc_w =~ 1*Unive_w + 1*Benev_w
STrasc_w ~ agea + gndrD + eisced2 + eisced3 + domicil2 + domicil3 + domicil4
STrasc_w ~~ 0.3*STrasc_w
Benev_w ~~ 0.2*Benev_w
Unive_w ~~ 0.2*Unive_w
level: 2
Benev_b =~ iphlppl_r + iplylfr_r
Unive_b =~ ipeqopt_r + ipudrst_r + impenv_r
STrasc_b =~ Unive_b + Benev_b
STrasc_b ~ HDI
iphlppl_r ~ 0
```

```
impenv_r ~ 0
ipudrst_r ~ 0
iplylfr_r ~ 0
ipeqopt_r ~ 0
STrasc_b ~~ 0.04*STrasc_b
Benev_b ~~ 0.03*Benev_b
Unive_b ~~ 0.03*Unive_b
for (r in c(8,9)) {
  ds_filtrada2 <- ds_filtradaAll %>% filter(essround == r)
  lavaan.Msemfit <- lavaan(Msemmodel, data=ds_filtrada2, sampling.weights = "dweight",</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
                          cluster = "cntry")
  assign(paste0("survey.Msemfit",r),lavaan.Msemfit)
  print(paste("ESS round: ", r))
  print(fitMeasures(lavaan.Msemfit, c("chisq","pvalue","cfi", "tli","rmsea", "srmr")))
  print(modindices(lavaan.Msemfit,sort=T)[1:10,])
  print(summary(lavaan.Msemfit, standardized=T, rsquare=T, fit.measures=T))
  invisible(semPaths(paste0("C:\\Users\\pamel\\Documents\\ESS\\MPLUS\\msem",r,".out"), "model", "std",
           style = "lisrel", edge.label.cex = 0.8, intercepts = FALSE, layout = "tree",
                     groups = "latent", pastel = TRUE, exoCov = FALSE, optimizeLatRes = TRUE, ask = FAL
}
## Warning in lav_model_vcov(lavmodel = lavmodel2, lavsamplestats = lavsamplestats, : lavaan WARNING:
##
       The variance-covariance matrix of the estimated parameters (vcov)
       does not appear to be positive definite! The smallest eigenvalue
##
       (=-1.499183e-18) is smaller than zero. This may be a symptom that
##
##
       the model is not identified.
## [1] "ESS round: 8"
##
      chisq
             pvalue
                         cfi
                                  tli
                                         rmsea
                                                   srmr
## 3681.955
              0.000
                       0.944
                                 0.933
                                         0.052
                                                   0.282
##
                         rhs block group level
            lhs op
                                                     mi
                                                            epc sepc.lv
## 17
        Unive_w ~~
                     Unive_w
                                 1
                                       1
                                             1 1157.664 -0.284 -0.389
## 112
        Benev_w ~~
                                 1
                                       1
                                             1 818.326 0.112
                                                                0.561
                     {\tt Unive\_w}
## 94
        Benev_w =~
                    impenv_r
                                 1
                                       1
                                             1 624.146 0.374
                                                                 0.268
## 101 STrasc_w =~
                    impenv_r
                                 1
                                       1
                                             1 580.172 0.932
                                                                 0.523
## 108 iplylfr_r ~~ impenv_r
                                 1
                                       1
                                             1 575.755
                                                         0.102
                                                                 0.102
                                                                 0.521
## 100
       STrasc_w =~ ipudrst_r
                                 1
                                       1
                                             1 575.184 0.928
## 96
        Unive_w =~ iplylfr_r
                                 1
                                             1 549.454
                                                         0.307
                                                                 0.220
                                       1
        Benev_w =~ ipudrst_r
                                             1 523.289 0.342
                                                                0.245
## 93
                                 1
                                       1
## 98
       STrasc_w =~ iplylfr_r
                                 1
                                       1
                                             1 495.413 0.754
                                                                0.423
```

```
##
      sepc.all sepc.nox
## 17
        -0.389
                -0.389
## 112
         0.561
                  0.561
## 94
         0.265
                  0.265
## 101
         0.516
                 0.516
## 108
       0.175
                0.175
## 100
         0.513
                0.513
## 96
         0.256
                 0.256
## 93
         0.242
                 0.242
## 98
         0.492
                  0.492
        -0.366
                -0.366
## 102
## lavaan 0.6-5 ended normally after 236 iterations
##
##
    Estimator
                                                     ML
##
    Optimization method
                                                 NLMINB
##
    Number of free parameters
                                                     25
##
##
                                                   Used
                                                             Total
    Number of observations
                                                             28080
##
                                                  27310
##
    Number of clusters [cntry]
                                                     14
##
    Sampling weights variable
                                                dweight
##
## Model Test User Model:
##
                                               Standard
                                                            Robust
##
    Test Statistic
                                               3681.955
                                                           1209.374
##
    Degrees of freedom
                                                     50
                                                                50
    P-value (Chi-square)
                                                  0.000
                                                             0.000
##
                                                             3.045
##
    Scaling correction factor
      for the Yuan-Bentler correction (Mplus variant)
##
##
## Model Test Baseline Model:
##
##
    Test statistic
                                              65249.164
                                                          20489.016
##
    Degrees of freedom
                                                     60
                                                                60
                                                  0.000
                                                             0.000
##
    P-value
##
    Scaling correction factor
                                                             3.185
##
## User Model versus Baseline Model:
##
##
    Comparative Fit Index (CFI)
                                                  0.944
                                                             0.943
    Tucker-Lewis Index (TLI)
                                                  0.933
##
                                                             0.932
##
##
    Robust Comparative Fit Index (CFI)
                                                             0.946
##
    Robust Tucker-Lewis Index (TLI)
                                                             0.935
##
## Loglikelihood and Information Criteria:
##
##
    Loglikelihood user model (HO)
                                           -380638.344 -380638.344
    Scaling correction factor
##
                                                             10.986
##
        for the MLR correction
##
    Loglikelihood unrestricted model (H1)
                                           -378797.367 -378797.367
##
    Scaling correction factor
                                                             5.692
##
        for the MLR correction
```

```
##
     Akaike (AIC)
##
                                                761326.688 761326.688
##
     Bayesian (BIC)
                                                761532.063 761532.063
##
     Sample-size adjusted Bayesian (BIC)
                                                761452.613 761452.613
##
## Root Mean Square Error of Approximation:
##
     RMSEA
##
                                                     0.052
                                                                 0.029
##
     90 Percent confidence interval - lower
                                                     0.050
                                                                 0.028
##
     90 Percent confidence interval - upper
                                                     0.053
                                                                 0.030
##
     P-value RMSEA <= 0.05
                                                     0.033
                                                                 1.000
##
     Robust RMSEA
                                                                 0.051
##
##
     90 Percent confidence interval - lower
                                                                 0.048
##
     90 Percent confidence interval - upper
                                                                 0.053
##
## Standardized Root Mean Square Residual (corr metric):
##
##
     SRMR (within covariance matrix)
                                                     0.035
                                                                 0.035
     SRMR (between covariance matrix)
                                                     0.247
##
                                                                 0.247
##
## Parameter Estimates:
##
##
     Information
                                                       Observed
     Observed information based on
##
                                                        Hessian
##
     Standard errors
                                             Robust.huber.white
##
## Level 1 [within]:
## Latent Variables:
##
                      Estimate Std.Err z-value P(>|z|)
                                                             Std.lv Std.all
     Benev_w =~
##
##
       iphlppl_r
                         1.000
                                                              0.717
                                                                        0.764
##
       iplylfr_r
                         0.732
                                   0.051
                                           14.477
                                                     0.000
                                                              0.525
                                                                        0.611
##
    Unive_w =~
##
       ipeqopt r
                         1.000
                                                              0.717
                                                                        0.662
##
       ipudrst_r
                         0.861
                                  0.038
                                           22.866
                                                     0.000
                                                              0.617
                                                                        0.609
##
       impenv_r
                         0.748
                                  0.038
                                           19.549
                                                     0.000
                                                              0.537
                                                                        0.530
##
     STrasc_w =~
       Unive_w
##
                         1.000
                                                              0.782
                                                                        0.782
                                                              0.782
##
       Benev_w
                         1.000
                                                                        0.782
##
## Regressions:
##
                      Estimate Std.Err z-value P(>|z|)
                                                             Std.lv Std.all
##
     STrasc_w ~
                         0.001
                                   0.001
                                            0.738
                                                     0.460
                                                              0.001
                                                                        0.017
##
       agea
##
                         0.188
                                  0.015
                                         12.844
                                                     0.000
                                                              0.335
                                                                        0.167
       gndrD
##
       eisced2
                         0.109
                                  0.021
                                            5.126
                                                     0.000
                                                              0.195
                                                                        0.090
##
                         0.165
                                  0.030
                                            5.545
                                                     0.000
                                                              0.294
       eisced3
                                                                        0.124
                                  0.015
##
       domicil2
                         0.045
                                            3.027
                                                     0.002
                                                              0.080
                                                                        0.037
                                  0.043 -1.193
##
       domicil3
                        -0.051
                                                     0.233
                                                             -0.091
                                                                       -0.028
##
       domicil4
                         0.005
                                  0.033
                                            0.161
                                                     0.872
                                                              0.009
                                                                        0.003
##
```

##	Intercepts:						
##	intortoopus.	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.iphlppl_r	0.000				0.000	0.000
##	.iplylfr_r	0.000				0.000	0.000
##	.ipeqopt_r	0.000				0.000	0.000
##	.ipudrst_r	0.000				0.000	0.000
##	.impenv_r	0.000				0.000	0.000
##	.Benev_w	0.000				0.000	0.000
##	$. {\tt Unive_w}$	0.000				0.000	0.000
##	$.\mathtt{STrasc_w}$	0.000				0.000	0.000
##							
	Variances:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.STrasc_w	0.300				0.953	0.953
##	.Benev_w	0.200				0.389	0.389
##	.Unive_w	0.200				0.389	0.389
##	.iphlppl_r	0.367	0.038	9.709	0.000	0.367	0.416
##	.iplylfr_r	0.463	0.020	23.103	0.000	0.463	0.627
## ##	.ipeqopt_r	0.659	0.043	15.462	0.000	0.659	0.562
##	.ipudrst_r .impenv_r	0.648 0.739	0.020 0.058	32.733 12.644	0.000	0.648 0.739	0.630 0.719
##	. Impenv_i	0.739	0.056	12.044	0.000	0.139	0.719
	R-Square:						
##	it bquare.	Estimate					
##	STrasc_w	0.047					
##	Benev_w	0.611					
##	Unive_w	0.611					
##	iphlppl_r	0.584					
##	iplylfr_r	0.373					
##	ipeqopt_r	0.438					
##	ipudrst_r	0.370					
##	impenv_r	0.281					
##							
##							
	Level 2 [cntry]:						
##							
	Latent Variables:	.	a	,	D(:)	Q. 1. 7	a. 1 11
##	D h -	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
## ##	Benev_b =~	1 000				0.299	0.901
##	iphlppl_r iplylfr_r	1.000 1.063	0.011	98.149	0.000	0.299	0.901
##	Unive_b =~	1.003	0.011	90.149	0.000	0.310	0.911
##	ipeqopt_r	1.000				0.299	0.885
##	ipudrst_r	0.969	0.010	99.554	0.000	0.290	0.988
##	impenv_r	1.011	0.014	72.714	0.000	0.302	0.821
##	STrasc_b =~						
##	Unive_b	1.000				0.815	0.815
##	Benev_b	1.001	0.008	124.204	0.000	0.815	0.815
##	_						
##	Regressions:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	STrasc_b ~						
##	HDI	5.096	0.075	68.273	0.000	20.934	0.570
##							

```
## Intercepts:
                       Estimate Std.Err z-value P(>|z|)
##
                                                                 Std.lv
                                                                         Std.all
##
                           0.000
                                                                  0.000
                                                                            0.000
      .iphlppl_r
##
                           0.000
                                                                  0.000
                                                                            0.000
      .impenv_r
##
      .ipudrst_r
                           0.000
                                                                  0.000
                                                                            0.000
##
                           0.000
                                                                  0.000
                                                                            0.000
      .iplylfr_r
##
                           0.000
                                                                  0.000
                                                                            0.000
      .ipeqopt_r
##
                           0.000
                                                                  0.000
                                                                            0.000
      .Benev_b
##
      .Unive b
                           0.000
                                                                  0.000
                                                                            0.000
##
      .STrasc_b
                           0.000
                                                                  0.000
                                                                            0.000
##
##
  Variances:
##
                                  Std.Err z-value P(>|z|)
                                                                         Std.all
                       Estimate
                                                                 Std.lv
##
      .STrasc_b
                           0.040
                                                                  0.675
                                                                            0.675
##
      .Benev_b
                           0.030
                                                                  0.336
                                                                            0.336
##
      .Unive_b
                           0.030
                                                                  0.336
                                                                            0.336
##
                           0.021
                                    0.019
                                                        0.265
                                                                  0.021
                                                                            0.189
      .iphlppl_r
                                              1.116
                                    0.017
                                              0.295
                                                        0.768
##
      .iplylfr_r
                           0.005
                                                                  0.005
                                                                            0.046
##
                           0.025
                                    0.021
                                              1.159
                                                        0.246
                                                                  0.025
                                                                            0.217
      .ipeqopt_r
##
      .ipudrst r
                           0.002
                                    0.010
                                              0.193
                                                        0.847
                                                                  0.002
                                                                            0.023
##
      .impenv_r
                           0.044
                                    0.019
                                              2.305
                                                        0.021
                                                                  0.044
                                                                            0.325
##
## R-Square:
##
                       Estimate
                           0.325
##
       STrasc b
       Benev_b
##
                           0.664
##
       Unive_b
                           0.664
##
                           0.811
       iphlppl_r
##
       iplylfr_r
                           0.954
##
       ipeqopt_r
                           0.783
##
       ipudrst_r
                           0.977
##
       impenv_r
                           0.675
##
##
  $FIT
##
                              npar
                                                               fmin
##
                            25.000
                                                             2.910
##
                             chisq
                                                                 df
##
                          3681.955
                                                            50.000
##
                            pvalue
                                                      chisq.scaled
##
                             0.000
                                                          1209.374
##
                         df.scaled
                                                     pvalue.scaled
##
                            50.000
                                                             0.000
##
                                                    baseline.chisq
             chisq.scaling.factor
##
                             3.045
                                                         65249.164
##
                      baseline.df
                                                   baseline.pvalue
##
                            60.000
                                                             0.000
##
           baseline.chisq.scaled
                                               baseline.df.scaled
##
                         20489.016
                                                             60.000
##
          baseline.pvalue.scaled baseline.chisq.scaling.factor
##
                             0.000
                                                             3.185
##
                               cfi
                                                                tli
                             0.944
##
                                                             0.933
##
                       cfi.scaled
                                                        tli.scaled
##
                                                             0.932
                             0.943
```

```
##
                      cfi.robust
                                                     tli.robust
##
                            0.946
                                                           0.935
##
                             logl
                                              unrestricted.logl
                     -380638.344
                                                    -378797.367
##
##
                              aic
                                                             bic
##
                      761326.688
                                                      761532.063
##
                          ntotal
                                                            bic2
                       27310.000
                                                      761452.613
##
##
               scaling.factor.h1
                                              scaling.factor.h0
##
                            5.692
                                                          10.986
##
                            rmsea
                                                 rmsea.ci.lower
##
                            0.052
                                                           0.050
##
                  rmsea.ci.upper
                                                   rmsea.pvalue
##
                            0.053
                                                           0.033
##
                    rmsea.scaled
                                          rmsea.ci.lower.scaled
##
                            0.029
                                                           0.028
##
           rmsea.ci.upper.scaled
                                            rmsea.pvalue.scaled
##
                            0.030
##
                    rmsea.robust
                                          rmsea.ci.lower.robust
##
                           0.051
                                                           0.048
##
           rmsea.ci.upper.robust
                                            rmsea.pvalue.robust
##
                           0.053
##
                                                     srmr_within
                            srmr
                            0.282
                                                           0.035
##
##
                    srmr_between
##
                            0.247
##
   $PE
##
##
                          rhs block level exo
             lhs op
                                                          est
                                                1.000000e+00 0.0000000000
## 1
         Benev_w =~ iphlppl_r
                                                7.317608e-01 0.0505464479
## 2
         Benev_w =~ iplylfr_r
##
   3
         Unive_w =~ ipeqopt_r
                                   1
                                                1.000000e+00 0.0000000000
## 4
         Unive_w =~ ipudrst_r
                                                8.606780e-01 0.0376404912
## 5
                                               7.484913e-01 0.0382886123
         Unive_w =~ impenv_r
                                   1
## 6
        STrasc w =~
                      Unive w
                                   1
                                                1.000000e+00 0.0000000000
                      Benev_w
## 7
                                   1
                                         1
                                               1.000000e+00 0.0000000000
        STrasc w =~
## 8
        STrasc w ~
                         agea
                                             0 5.120689e-04 0.0006936479
## 9
        STrasc w
                        gndrD
                                   1
                                         1
                                             0 1.879364e-01 0.0146323219
## 10
        STrasc w
                      eisced2
                                             0 1.094385e-01 0.0213499135
## 11
        STrasc_w
                      eisced3
                                             0 1.650486e-01 0.0297663359
## 12
        STrasc w ~
                     domicil2
                                             0 4.483230e-02 0.0148104398
## 13
        STrasc w ~
                     domicil3
                                   1
                                             0 -5.087385e-02 0.0426418745
        STrasc w ~
                                             0 5.241221e-03 0.0325963050
## 14
                     domicil4
                                   1
## 15
        STrasc_w ~~
                     STrasc_w
                                               3.000000e-01 0.0000000000
                                   1
## 16
         Benev_w ~~
                                               2.000000e-01 0.0000000000
                      Benev_w
                                   1
                                             0 2.000000e-01 0.0000000000
## 17
         Unive_w ~~
                                   1
                      Unive_w
                                         1
                                                3.673493e-01 0.0378356964
##
  18
       iphlppl_r ~~ iphlppl_r
                                   1
                                               4.629101e-01 0.0200371158
##
  19
       iplylfr_r ~~ iplylfr_r
  20
       ipeqopt_r ~~ ipeqopt_r
                                   1
                                             0 6.591475e-01 0.0426310336
  21
##
       ipudrst_r ~~ ipudrst_r
                                   1
                                             0 6.479532e-01 0.0197949345
## 22
                                   1
                                             0 7.389357e-01 0.0584399461
        impenv_r ~~
                     impenv_r
                                         1
## 23
                                  1
                                             1 3.410479e+02 0.0000000000
            agea ~~
                         agea
## 24
            agea ~~
                        gndrD
                                  1
                                             1 2.198374e-01 0.0000000000
                                             1 -7.871643e-01 0.0000000000
## 25
            agea ~~
                      eisced2
```

```
## 26
                       eisced3
                                               1 -4.428063e-01 0.0000000000
            agea ~~
##
   27
            agea ~~
                                               1 -1.265644e-01 0.0000000000
                      domicil2
                                    1
                      domicil3
                                                  1.319128e-02 0.0000000000
##
   28
            agea ~~
##
  29
             agea ~~
                      domicil4
                                               1 -3.595062e-01 0.0000000000
                                    1
                                           1
##
   30
           gndrD ~~
                         gndrD
                                    1
                                                  2.497038e-01 0.0000000000
   31
                                                  7.219213e-04 0.0000000000
##
           gndrD ~~
                       eisced2
                                    1
                                           1
   32
           gndrD ~~
##
                       eisced3
                                    1
                                           1
                                                  3.103269e-03 0.0000000000
  33
##
           gndrD ~~
                      domicil2
                                    1
                                           1
                                                  4.278976e-03 0.0000000000
##
   34
           gndrD ~~
                      domicil3
                                    1
                                           1
                                               1 -2.766908e-03 0.0000000000
   35
##
           gndrD ~~
                      domicil4
                                    1
                                           1
                                                  1.353776e-03 0.0000000000
##
   36
         eisced2 ~~
                       eisced2
                                    1
                                                  2.139681e-01 0.0000000000
   37
         eisced2 ~~
                                               1 -7.144008e-02 0.0000000000
##
                       eisced3
                                    1
                                           1
##
   38
         eisced2 ~~
                      domici12
                                    1
                                           1
                                                  5.272074e-03 0.0000000000
   39
         eisced2 ~~
##
                      domicil3
                                    1
                                           1
                                               1 -3.777640e-04 0.0000000000
##
   40
         eisced2 ~~
                      domicil4
                                    1
                                               1 1.122347e-03 0.0000000000
                                           1
##
   41
         eisced3 ~~
                       eisced3
                                    1
                                           1
                                                  1.772719e-01 0.0000000000
##
                                    1
   42
         eisced3 ~~
                      domicil2
                                           1
                                               1 -4.220485e-03 0.0000000000
##
   43
         eisced3 ~~
                      domicil3
                                                  8.044033e-03 0.0000000000
##
         eisced3 ~~
                                                  1.710203e-02 0.0000000000
   44
                      domicil4
                                    1
                                           1
##
   45
        domicil2 ~~
                      domicil2
                                    1
                                                  2.162388e-01 0.0000000000
##
   46
        domicil2 ~~
                      domicil3
                                    1
                                           1
                                               1 -3.335124e-02 0.0000000000
   47
        domicil2 ~~
                      domicil4
                                    1
                                               1 -5.284087e-02 0.0000000000
##
        domicil3 ~~
                      domicil3
                                                 9.433493e-02 0.0000000000
##
  48
                                    1
                                           1
                                               1 -1.761974e-02 0.0000000000
##
   49
        domicil3 ~~
                      domicil4
                                    1
##
   50
        domicil4 ~~
                      domicil4
                                    1
                                           1
                                                  1.391654e-01 0.0000000000
##
   51
       iphlppl_r ~1
                                    1
                                           1
                                                  0.000000e+00 0.0000000000
                                    1
                                                  0.000000e+00 0.0000000000
##
   52
       iplylfr_r ~1
                                           1
##
   53
       ipeqopt_r ~1
                                    1
                                           1
                                                  0.000000e+00 0.0000000000
                                    1
                                           1
                                                  0.000000e+00 0.000000000
##
   54
       ipudrst_r ~1
##
   55
                                    1
                                           1
                                                  0.000000e+00 0.0000000000
        impenv_r ~1
##
   56
             agea ~1
                                    1
                                           1
                                               1
                                                  4.892179e+01 0.0000000000
##
   57
           gndrD ~1
                                    1
                                           1
                                                  5.172098e-01 0.0000000000
                                    1
##
   58
         eisced2 ~1
                                           1
                                                  3.101794e-01 0.0000000000
   59
##
         eisced3 ~1
                                    1
                                           1
                                                  2.303186e-01 0.0000000000
##
   60
        domicil2 ~1
                                    1
                                           1
                                                  3.162578e-01 0.0000000000
##
                                    1
                                           1
                                                  1.054559e-01 0.0000000000
   61
        domicil3 ~1
##
   62
        domicil4 ~1
                                    1
                                           1
                                                  1.670817e-01 0.0000000000
##
  63
                                    1
                                               0
                                                  0.000000e+00 0.0000000000
         Benev_w ~1
                                           1
   64
                                    1
                                           1
                                               0
                                                  0.000000e+00 0.0000000000
##
         Unive w ~1
##
   65
        STrasc_w ~1
                                    1
                                           1
                                                  0.000000e+00 0.0000000000
                                    2
##
   66
         Benev_b =~ iphlppl_r
                                                  1.000000e+00 0.0000000000
   67
                                    2
                                           2
                                                  1.063192e+00 0.0108323960
##
         Benev_b =~ iplylfr_r
                                    2
##
   68
         Unive b =~ ipeqopt r
                                           2
                                                  1.000000e+00 0.0000000000
                                    2
                                           2
##
   69
                                                  9.693905e-01 0.0097373252
         Unive_b =~ ipudrst_r
  70
                                    2
                                           2
##
         Unive_b =~
                      impenv_r
                                                  1.011297e+00 0.0139078807
## 71
                                    2
                                           2
                                               0
        STrasc_b =~
                       Unive_b
                                                  1.000000e+00 0.0000000000
                                    2
                                           2
##
   72
        STrasc b =~
                       Benev b
                                                  1.000622e+00 0.0080562950
                   ~
                                    2
                                           2
##
  73
        STrasc_b
                           HDI
                                                  5.095710e+00 0.0746371647
##
   74
       iphlppl_r ~1
                                    2
                                           2
                                                  0.000000e+00 0.0000000000
                                    2
                                           2
##
   75
        impenv_r ~1
                                               0
                                                  0.000000e+00 0.0000000000
                                    2
                                           2
                                               0
##
   76
       ipudrst_r ~1
                                                  0.000000e+00 0.0000000000
                                    2
                                           2
                                               0
##
   77
       iplylfr_r ~1
                                                  0.000000e+00 0.0000000000
##
  78
                                    2
                                           2
                                               0
                                                  0.000000e+00 0.0000000000
       ipeqopt_r ~1
                                           2
## 79
        STrasc b ~~
                      STrasc b
                                                  4.000000e-02 0.0000000000
```

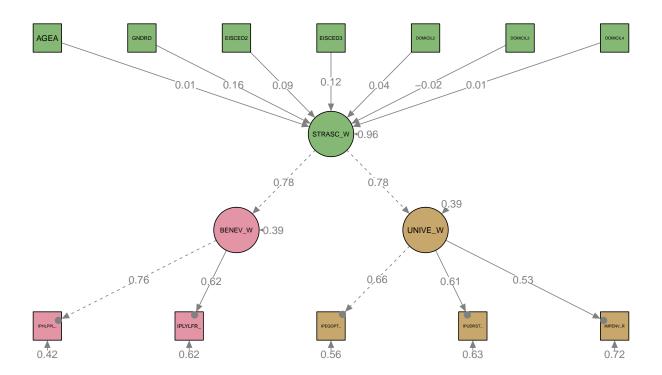
```
## 80
         Benev b ~~
                       Benev b
                                                  3.000000e-02 0.0000000000
## 81
                                    2
                                          2
                                                  3.000000e-02 0.0000000000
         Unive b ~~
                       Unive b
       iphlppl_r ~~ iphlppl_r
##
                                                  2.076872e-02 0.0186171278
       iplylfr_r ~~ iplylfr_r
                                    2
                                          2
                                                  4.874043e-03 0.0165160122
##
   83
##
   84
       ipeqopt_r ~~ ipeqopt_r
                                    2
                                                  2.476449e-02 0.0213598475
                                    2
                                          2
   85
       ipudrst r ~~ ipudrst r
                                                  1.991354e-03 0.0103062913
##
                                    2
##
   86
        impenv r ~~
                      impenv r
                                                  4.398812e-02 0.0190876118
                                    2
                                          2
## 87
             HDI ~~
                           HDI
                                               1
                                                  7.415306e-04 0.0000000000
##
   88
             HDI ~1
                                    2
                                          2
                                                  9.084286e-01 0.0000000000
                                    2
                                          2
##
  89
         Benev_b ~1
                                                  0.000000e+00 0.0000000000
##
   90
         Unive_b ~1
                                    2
                                                  0.000000e+00 0.0000000000
                                    2
                                                  0.000000e+00 0.0000000000
##
  91
        STrasc b ~1
##
  92
        STrasc_w r2
                      STrasc_w
                                    1
                                          1
                                                  4.655723e-02
                                                                          NA
##
  93
         Benev_w r2
                       Benev_w
                                    1
                                          1
                                                  6.113858e-01
                                                                          NA
                                                  6.113858e-01
                                                                          NA
## 94
         Unive_w r2
                       Unive_w
                                    1
                                          1
                                               0
##
   95
       iphlppl_r r2 iphlppl_r
                                    1
                                               0
                                                  5.835035e-01
                                                                          NA
##
       iplylfr_r r2 iplylfr_r
                                                  3.731678e-01
                                                                          NA
   96
                                    1
                                          1
       ipegopt r r2 ipegopt r
                                                  4.384483e-01
                                                                          NA
   97
                                    1
##
       ipudrst_r r2 ipudrst_r
                                               0
                                                  3.704230e-01
                                                                          NΑ
   98
                                    1
                                          1
##
   99
        impenv r r2
                      impenv r
                                    1
                                          1
                                                  2.806748e-01
                                                                          NA
##
  100
        STrasc_b r2
                      STrasc b
                                    2
                                          2
                                               0
                                                  3.249490e-01
                                                                          NA
         Benev b r2
                                    2
##
  101
                       Benev b
                                                  6.641611e-01
                                                                          NΑ
                                    2
                                          2
## 102
         Unive_b r2
                       Unive_b
                                               0
                                                  6.638835e-01
                                                                          NA
                                    2
                                          2
## 103 iphlppl_r r2 iphlppl_r
                                                  8.113602e-01
                                                                          NA
   104 iplylfr_r r2 iplylfr_r
                                    2
                                          2
                                                  9.539529e-01
                                                                          NA
   105 ipeqopt_r r2 ipeqopt_r
                                    2
                                          2
                                                  7.828043e-01
                                                                          NA
                                    2
                                          2
                                                  9.768085e-01
                                                                          NA
   106
       ipudrst_r r2 ipudrst_r
                                               0
                                          2
##
   107
        impenv_r r2
                                               0
                                                  6.748146e-01
                                                                           NA
                      impenv_r
##
                  z
                          pvalue
                                         std.lv
                                                      std.all
                                                                     std.nox
## 1
                 NA
                               NA
                                   7.173905e-01
                                                  0.763874008
                                                                7.638740e-01
## 2
        14.4769983 0.000000e+00
                                   5.249583e-01
                                                  0.610874648
                                                                6.108746e-01
##
   3
                 NA
                               NA
                                   7.173905e-01
                                                  0.662154307
                                                                6.621543e-01
##
        22.8657475 0.000000e+00
                                   6.174422e-01
                                                  0.608623836
                                                                6.086238e-01
##
        19.5486666 0.000000e+00
  5
                                   5.369606e-01
                                                  0.529787518
                                                                5.297875e-01
##
   6
                               NA
                                   7.819116e-01
                                                  0.781911614
                                                                7.819116e-01
                 NA
##
  7
                 NA
                              NΑ
                                   7.819116e-01
                                                  0.781911614
                                                                7.819116e-01
##
  8
         0.7382260 4.603772e-01
                                   9.128829e-04
                                                  0.016858648
                                                                9.128829e-04
## 9
        12.8439239 0.000000e+00
                                   3.350408e-01
                                                  0.167421124
                                                                3.350408e-01
         5.1259471 2.960458e-07
                                   1.950998e-01
                                                  0.090246733
                                                                1.950998e-01
##
  10
##
                                                                2.942379e-01
  11
         5.5448078 2.942772e-08
                                   2.942379e-01
                                                  0.123884948
   12
         3.0270739 2.469336e-03
                                   7.992408e-02
                                                  0.037165884
                                                                7.992408e-02
  13
        -1.1930490 2.328502e-01
                                  -9.069456e-02
                                                 -0.027855922 -9.069456e-02
##
##
   14
         0.1607919 8.722573e-01
                                   9.343707e-03
                                                  0.003485658
                                                                9.343707e-03
                              NA
##
  15
                 NA
                                   9.534428e-01
                                                                9.534428e-01
                                                  0.953442767
## 16
                 NA
                              NA
                                   3.886142e-01
                                                  0.388614228
                                                                3.886142e-01
## 17
                               NA
                                                  0.388614228
                 NA
                                   3.886142e-01
                                                                3.886142e-01
##
   18
         9.7090661 0.000000e+00
                                   3.673493e-01
                                                  0.416496499
                                                                4.164965e-01
##
   19
        23.1026337 0.000000e+00
                                   4.629101e-01
                                                  0.626832165
                                                                6.268322e-01
##
  20
        15.4616823 0.000000e+00
                                   6.591475e-01
                                                  0.561551673
                                                                5.615517e-01
##
   21
        32.7332825 0.000000e+00
                                   6.479532e-01
                                                  0.629577026
                                                                6.295770e-01
##
   22
        12.6443598 0.000000e+00
                                   7.389357e-01
                                                  0.719325185
                                                                7.193252e-01
## 23
                 NA
                                   3.410479e+02
                                                  1.000000000
                                                                3.410479e+02
## 24
                 NΑ
                                   2.198374e-01 0.023822173
                                                                2.198374e-01
## 25
                 NA
                              NA -7.871643e-01 -0.092147415 -7.871643e-01
```

```
## 26
                               NA -4.428063e-01 -0.056949004 -4.428063e-01
                 NA
## 27
                 NA
                                  -1.265644e-01 -0.014737949 -1.265644e-01
                                                               1.319128e-02
##
  28
                 NA
                                   1.319128e-02 0.002325642
                                  -3.595062e-01 -0.052183487 -3.595062e-01
##
  29
                 NA
##
   30
                 NA
                                   2.497038e-01
                                                  1.000000000
                                                                2.497038e-01
##
  31
                                   7.219213e-04
                                                  0.003123221
                                                                7.219213e-04
                 NA
##
  32
                 NA
                              NA
                                   3.103269e-03
                                                  0.014749824
                                                                3.103269e-03
## 33
                 NA
                              NΑ
                                   4.278976e-03
                                                  0.018414523
                                                                4.278976e-03
##
   34
                 NA
                                  -2.766908e-03 -0.018027930 -2.766908e-03
                              NΑ
##
   35
                 NΑ
                               NA
                                   1.353776e-03
                                                  0.007262207
                                                                1.353776e-03
##
   36
                 NA
                              NA
                                   2.139681e-01
                                                  1.000000000
                                                                2.139681e-01
##
   37
                 NΑ
                                  -7.144008e-02 -0.366815252 -7.144008e-02
##
   38
                 NA
                                   5.272074e-03
                                                 0.024509820
                                                                5.272074e-03
                              NA
##
  39
                 NA
                                  -3.777640e-04 -0.002658947 -3.777640e-04
## 40
                 NA
                              NA
                                   1.122347e-03
                                                  0.006504097
                                                                1.122347e-03
##
   41
                               NA
                                   1.772719e-01
                                                  1.00000000
                                                                1.772719e-01
                 NΑ
##
                                  -4.220485e-03 -0.021556367 -4.220485e-03
  42
                 NΑ
                               NA
   43
                                   8.044033e-03
                                                  0.062203894
                                                                8.044033e-03
##
                 NA
##
  44
                                   1.710203e-02
                                                  0.108883492
                                                                1.710203e-02
                 NA
                              NA
##
   45
                 NA
                                   2.162388e-01
                                                  1.000000000
                                                                2.162388e-01
##
  46
                 NA
                                  -3.335124e-02 -0.233511848 -3.335124e-02
                                  -5.284087e-02 -0.304605388
##
  47
                 NA
                                                              -5.284087e-02
                                                                9.433493e-02
  48
                                   9.433493e-02
                                                  1.000000000
##
                 NA
                              NA
##
   49
                 NA
                              NA
                                  -1.761974e-02 -0.153779230 -1.761974e-02
##
  50
                 NA
                              NΑ
                                   1.391654e-01
                                                  1.000000000
                                                                1.391654e-01
##
  51
                 NA
                              NA
                                   0.000000e+00
                                                  0.00000000
                                                                0.000000e+00
##
  52
                 NΑ
                               NA
                                   0.000000e+00
                                                  0.00000000
                                                                0.000000e+00
##
   53
                 NA
                              NA
                                   0.000000e+00
                                                  0.00000000
                                                                0.000000e+00
##
   54
                 NΑ
                               ΝA
                                   0.000000e+00
                                                  0.00000000
                                                                0.000000e+00
## 55
                 NA
                              NA
                                   0.000000e+00
                                                  0.00000000
                                                                0.000000e+00
## 56
                 NA
                               NA
                                   4.892179e+01
                                                  2.649077414
                                                                4.892179e+01
##
  57
                 NA
                              NA
                                   5.172098e-01
                                                  1.035032915
                                                                5.172098e-01
##
   58
                 NA
                               NA
                                   3.101794e-01
                                                  0.670561196
                                                                3.101794e-01
##
  59
                                   2.303186e-01
                                                  0.547027257
                                                                2.303186e-01
                 NΑ
                               NA
   60
                                                                3.162578e-01
##
                 NA
                               NA
                                   3.162578e-01
                                                  0.680102563
##
  61
                 NA
                              NA
                                   1.054559e-01
                                                  0.343347991
                                                                1.054559e-01
##
  62
                 NA
                              NΑ
                                   1.670817e-01
                                                  0.447881548
                                                                1.670817e-01
## 63
                                                  0.00000000
                 NA
                              NA
                                   0.000000e+00
                                                                0.000000e+00
##
   64
                 NA
                              NA
                                   0.000000e+00
                                                  0.00000000
                                                                0.000000e+00
                               NA
                                   0.000000e+00
                                                  0.00000000
                                                                0.000000e+00
##
  65
                 NA
##
   66
                 NA
                              NA
                                   2.988788e-01
                                                  0.900755358
                                                                9.007554e-01
        98.1492830
##
   67
                    0.000000e+00
                                   3.177655e-01
                                                  0.976705102
                                                                9.767051e-01
##
   68
                 NA
                               NA
                                   2.987554e-01
                                                  0.884762290
                                                                8.847623e-01
        99.5540815 0.000000e+00
##
   69
                                   2.896106e-01
                                                  0.988336225
                                                                9.883362e-01
##
   70
        72.7139474 0.000000e+00
                                   3.021304e-01
                                                  0.821470992
                                                                8.214710e-01
  71
##
                 NΑ
                               NA
                                   8.147905e-01
                                                  0.814790490
                                                                8.147905e-01
##
   72
       124.2037681 0.000000e+00
                                   8.149608e-01
                                                  0.814960783
                                                                8.149608e-01
##
   73
        68.2730950 0.000000e+00
                                   2.093356e+01
                                                  0.570042946
                                                                2.093356e+01
##
  74
                 NA
                               NA
                                   0.000000e+00
                                                  0.00000000
                                                                0.000000e+00
##
  75
                 NA
                               NA
                                   0.00000e+00
                                                  0.00000000
                                                                0.000000e+00
##
  76
                 NA
                              ΝA
                                   0.000000e+00
                                                  0.00000000
                                                                0.000000e+00
## 77
                 NA
                               NA
                                   0.000000e+00
                                                  0.00000000
                                                                0.000000e+00
## 78
                                   0.000000e+00
                                                  0.00000000
                                                                0.00000e+00
                 NA
                              NA
## 79
                                   6.750510e-01
                                                  0.675051039
                                                                6.750510e-01
                 NΑ
```

##	80	NA	NA	3.358389e-01	0.335838923	3.358389e-01
##	81	NA	NA	3.361165e-01	0.336116457	3.361165e-01
##	82	1.1155708	2.646059e-01	2.076872e-02	0.188639785	1.886398e-01
##	83	0.2951101	7.679097e-01	4.874043e-03	0.046047143	4.604714e-02
##	84	1.1593947	2.462953e-01	2.476449e-02	0.217195690	2.171957e-01
##	85	0.1932173	8.467888e-01	1.991354e-03	0.023191507	2.319151e-02
##	86	2.3045377	2.119248e-02	4.398812e-02	0.325185409	3.251854e-01
##	87	NA	NA	7.415306e-04	1.000000000	7.415306e-04
##	88	NA	NA	9.084286e-01	33.360015421	9.084286e-01
##	89	NA	NA	0.000000e+00	0.000000000	0.000000e+00
##	90	NA	NA	0.000000e+00	0.000000000	0.000000e+00
##	91	NA	NA	0.000000e+00	0.000000000	0.000000e+00
##	92	NA	NA	NA	NA	NA
##	93	NA	NA	NA	NA	NA
##	94	NA	NA	NA	NA	NA
##	95	NA	NA	NA	NA	NA
##	96	NA	NA	NA	NA	NA
##	97	NA	NA	NA	NA	NA
##	98	NA	NA	NA	NA	NA
##	99	NA	NA	NA	NA	NA
##	100	NA	NA	NA	NA	NA
##	101	NA	NA	NA	NA	NA
##	102	NA	NA	NA	NA	NA
##	103	NA	NA	NA	NA	NA
##	104	NA	NA	NA	NA	NA
##	105	NA	NA	NA	NA	NA
	106	NA	NA	NA	NA	NA
##	107	NA	NA	NA	NA	NA
##						

Reading model: C:\Users\pamel\Documents\ESS\MPLUS\msem8.out

Within

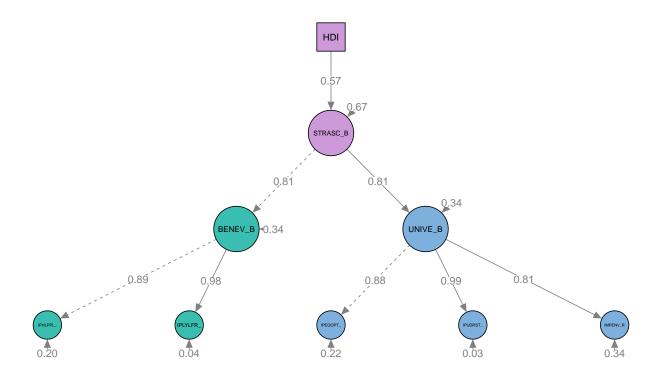


Warning in lav_model_vcov(lavmodel = lavmodel2, lavsamplestats = lavsamplestats, : lavaan WARNING:
The variance-covariance matrix of the estimated parameters (vcov)
does not appear to be positive definite! The smallest eigenvalue

(= -9.695622e-19) is smaller than zero. This may be a symptom that

the model is not identified.

Between



```
## [1] "ESS round: 9"
                                    tli
##
      chisq
              pvalue
                           cfi
                                            rmsea
                                                      srmr
## 3578.805
               0.000
                         0.942
                                  0.931
                                            0.052
                                                     0.244
##
             lhs op
                                                               epc sepc.lv
                           rhs block group level
                                                        mi
## 17
         Unive_w ~~
                                                1 1388.262 -0.318
                                                                   -0.389
                      Unive_w
                                   1
## 108 iplylfr_r ~~
                      impenv_r
                                                   789.173
                                                            0.116
                                                                     0.116
                                   1
                                          1
                                                1
## 112
         Benev_w ~~
                      Unive_w
                                                   781.832
                                                            0.112
                                                                     0.560
## 94
         Benev_w =~
                      impenv_r
                                   1
                                                   717.980
                                                            0.394
                                                                     0.283
                                          1
                                                1
## 96
         Unive_w =~ iplylfr_r
                                   1
                                         1
                                                   659.040
                                                            0.336
                                                                     0.241
## 101
                                                            0.974
                                                                     0.546
        STrasc_w =~
                                   1
                                                   654.118
                      impenv_r
                                         1
                                                1
## 16
         Benev_w ~~
                      Benev_w
                                   1
                                         1
                                                   627.538 -0.241
                                                                    -0.389
## 102 iphlppl_r ~~ iplylfr_r
                                   1
                                          1
                                                1
                                                   627.534 -0.170
                                                                    -0.170
## 98
        STrasc_w =~ iplylfr_r
                                   1
                                          1
                                                1
                                                   627.529 0.849
                                                                     0.476
## 3
         Unive_w =~ ipeqopt_r
                                   1
                                          1
                                                1 626.815 -0.277 -0.198
       sepc.all sepc.nox
##
## 17
         -0.389
                  -0.389
## 108
          0.206
                   0.206
## 112
          0.560
                   0.560
## 94
          0.288
                   0.288
## 96
          0.285
                   0.285
## 101
          0.557
                   0.557
## 16
         -0.389
                  -0.389
         -0.423
                  -0.423
## 102
## 98
          0.562
                   0.562
## 3
         -0.183
                  -0.183
## lavaan 0.6-5 ended normally after 236 iterations
```

##			
##	Estimator	ML	
##	Optimization method	NLMINB	
##	Number of free parameters	25	
##			m
##		Used	
##	Number of observations	26525	27540
##	Number of clusters [cntry]	14	
##	Sampling weights variable	dweight	
	Model Test User Model:		
##	model lest oser model.	Standard	Robust
##	Test Statistic	3578.805	
##	Degrees of freedom	50	50
##	P-value (Chi-square)	0.000	0.000
##	Scaling correction factor	0.000	2.897
##	for the Yuan-Bentler correction (Mplus	variant)	2.001
##		,	
##	Model Test Baseline Model:		
##			
##	Test statistic	61286.099	19448.415
##	Degrees of freedom	60	60
##	P-value	0.000	0.000
##	Scaling correction factor		3.151
##			
##	User Model versus Baseline Model:		
##			
##	Comparative Fit Index (CFI)	0.942	
##	Tucker-Lewis Index (TLI)	0.931	0.927
##	Dahust Commonation Fit Indon (CFI)		0.044
##	Robust Comparative Fit Index (CFI) Robust Tucker-Lewis Index (TLI)		0.944 0.933
##	RODUST TUCKET-LEWIS THICEX (ILI)		0.933
	Loglikelihood and Information Criteria:		
##	2081111011111000 data information official		
##	Loglikelihood user model (HO)	-369563.987	-369563.987
##	Scaling correction factor		9.569
##	for the MLR correction		
##	Loglikelihood unrestricted model (H1)	-367774.585	-367774.585
##	Scaling correction factor		5.121
##	for the MLR correction		
##			
##	Akaike (AIC)	739177.975	
##	Bayesian (BIC)	739382.621	
##	Sample-size adjusted Bayesian (BIC)	739303.171	739303.171
##			
	Root Mean Square Error of Approximation:		
##	DMCEA	0.050	0.030
## ##	RMSEA 90 Percent confidence interval - lower	0.052 0.050	0.030 0.029
##	90 Percent confidence interval - lower upper	0.050	
##	P-value RMSEA <= 0.05	0.034	1.000
##		0.001	1.000
##	Robust RMSEA		0.051
			· · · · -

```
0.048
##
     90 Percent confidence interval - lower
##
     90 Percent confidence interval - upper
                                                                  0.053
##
## Standardized Root Mean Square Residual (corr metric):
##
##
     SRMR (within covariance matrix)
                                                     0.035
                                                                  0.035
##
     SRMR (between covariance matrix)
                                                     0.209
                                                                  0.209
##
## Parameter Estimates:
##
##
     Information
                                                        Observed
     Observed information based on
##
                                                         Hessian
     Standard errors
##
                                             Robust.huber.white
##
##
## Level 1 [within]:
##
## Latent Variables:
                                                             Std.lv Std.all
##
                      Estimate Std.Err z-value P(>|z|)
##
     Benev w =~
                         1.000
##
       iphlppl_r
                                                               0.717
                                                                        0.771
##
       iplylfr_r
                         0.706
                                   0.049
                                           14.305
                                                     0.000
                                                               0.506
                                                                        0.598
##
     Unive_w =~
##
                         1.000
                                                               0.717
                                                                        0.662
       ipeqopt_r
                                           23.953
                                                     0.000
##
                         0.839
                                   0.035
                                                               0.602
                                                                        0.599
       ipudrst_r
##
       impenv_r
                         0.723
                                   0.044
                                           16.494
                                                     0.000
                                                               0.518
                                                                        0.529
##
     STrasc_w =~
                         1.000
                                                               0.781
                                                                        0.781
##
       Unive_w
                                                               0.781
##
       Benev_w
                         1.000
                                                                        0.781
##
## Regressions:
##
                      Estimate Std.Err z-value P(>|z|)
                                                              Std.lv Std.all
##
     STrasc_w ~
##
                        -0.001
                                   0.001
                                           -1.412
                                                     0.158
                                                              -0.002
                                                                       -0.028
       agea
##
       gndrD
                         0.193
                                   0.017
                                           11.452
                                                     0.000
                                                               0.344
                                                                        0.172
##
       eisced2
                         0.084
                                   0.017
                                           4.868
                                                     0.000
                                                               0.149
                                                                        0.070
##
       eisced3
                         0.135
                                   0.024
                                            5.552
                                                     0.000
                                                               0.241
                                                                        0.103
##
       domicil2
                         0.023
                                   0.018
                                            1.333
                                                     0.182
                                                               0.042
                                                                        0.019
##
       domicil3
                         0.057
                                   0.027
                                            2.084
                                                     0.037
                                                               0.101
                                                                        0.032
                         0.044
                                   0.023
##
       domicil4
                                            1.950
                                                     0.051
                                                               0.079
                                                                        0.030
##
## Intercepts:
                      Estimate Std.Err z-value P(>|z|)
##
                                                              Std.lv Std.all
##
                         0.000
                                                               0.000
                                                                        0.000
      .iphlppl_r
##
                         0.000
                                                               0.000
                                                                        0.000
      .iplylfr_r
##
                         0.000
                                                               0.000
                                                                        0.000
      .ipeqopt_r
##
      .ipudrst_r
                         0.000
                                                               0.000
                                                                        0.000
##
                                                                        0.000
      .impenv_r
                         0.000
                                                               0.000
##
      .Benev_w
                         0.000
                                                               0.000
                                                                        0.000
##
      . {\tt Unive\_w}
                         0.000
                                                               0.000
                                                                        0.000
##
                                                               0.000
                                                                        0.000
      .STrasc_w
                         0.000
##
## Variances:
                      Estimate Std.Err z-value P(>|z|)
##
                                                              Std.lv Std.all
```

```
##
      .STrasc w
                          0.300
                                                                 0.956
                                                                          0.956
##
      .Benev_w
                          0.200
                                                                 0.389
                                                                           0.389
##
      .Unive_w
                          0.200
                                                                 0.389
                                                                           0.389
##
                          0.350
                                    0.039
                                             8.972
                                                       0.000
                                                                 0.350
                                                                           0.405
      .iphlppl_r
##
      .iplylfr_r
                          0.460
                                    0.023
                                            20.421
                                                       0.000
                                                                 0.460
                                                                           0.642
##
                          0.660
                                    0.041
                                            16.114
                                                       0.000
                                                                 0.660
                                                                          0.562
      .ipeqopt_r
##
      .ipudrst r
                          0.646
                                    0.024
                                            27.122
                                                       0.000
                                                                 0.646
                                                                          0.641
                                                                 0.692
                                                                          0.721
##
                                    0.045
                                            15.551
                                                       0.000
      .impenv_r
                          0.692
##
## R-Square:
##
                       Estimate
##
                          0.044
       STrasc_w
                          0.611
##
       Benev_w
##
       Unive_w
                          0.611
##
                          0.595
       iphlppl_r
##
       iplylfr_r
                          0.358
##
                          0.438
       ipeqopt_r
##
       ipudrst_r
                          0.359
##
                          0.279
       impenv_r
##
##
## Level 2 [cntry]:
##
## Latent Variables:
##
                       Estimate Std.Err z-value P(>|z|)
                                                                Std.lv Std.all
##
     Benev b =~
##
       iphlppl_r
                          1.000
                                                                 0.297
                                                                          0.890
##
                          1.060
                                    0.013
                                            84.247
                                                       0.000
                                                                 0.315
                                                                           0.958
       iplylfr_r
##
     Unive_b =~
                                                                 0.296
                                                                          0.871
##
       ipeqopt_r
                          1.000
##
       ipudrst_r
                          0.971
                                    0.010
                                            96.397
                                                       0.000
                                                                 0.288
                                                                           0.978
##
       impenv_r
                          1.041
                                    0.015
                                            70.043
                                                       0.000
                                                                 0.309
                                                                           0.872
##
     STrasc_b =~
##
                          1.000
                                                                 0.812
                                                                           0.812
       Unive_b
##
       Benev_b
                          1.004
                                    0.009
                                           117.584
                                                       0.000
                                                                 0.813
                                                                           0.813
##
## Regressions:
##
                       Estimate Std.Err z-value P(>|z|)
                                                                Std.lv Std.all
##
     STrasc_b ~
##
       HDI
                                    0.086
                                                       0.000
                                                                          0.556
                          5.151
                                            59.921
                                                                21.408
##
## Intercepts:
##
                       Estimate
                                  Std.Err z-value P(>|z|)
                                                                Std.lv
                                                                        Std.all
##
                          0.000
                                                                 0.000
                                                                          0.000
      .iphlppl_r
##
                          0.000
                                                                 0.000
                                                                           0.000
      .impenv_r
##
                                                                          0.000
                          0.000
                                                                 0.000
      .ipudrst_r
                                                                 0.000
                                                                           0.000
##
      .iplylfr_r
                          0.000
##
                          0.000
                                                                 0.000
                                                                           0.000
      .ipeqopt_r
##
      .Benev_b
                          0.000
                                                                 0.000
                                                                           0.000
##
      .Unive_b
                          0.000
                                                                 0.000
                                                                           0.000
##
                          0.000
                                                                 0.000
                                                                           0.000
      .STrasc_b
##
## Variances:
                       Estimate Std.Err z-value P(>|z|)
##
                                                                Std.lv Std.all
```

```
0.691
                                                                            0.691
##
      .STrasc b
                           0.040
##
      .Benev_b
                           0.030
                                                                  0.339
                                                                            0.339
                           0.030
                                                                            0.341
##
      .Unive_b
                                                                  0.341
##
                           0.023
                                     0.023
                                               0.995
                                                        0.320
                                                                  0.023
                                                                            0.209
       .iphlppl_r
##
       .iplylfr_r
                           0.009
                                     0.021
                                               0.421
                                                        0.674
                                                                  0.009
                                                                            0.082
##
      .ipeqopt_r
                           0.028
                                     0.021
                                               1.328
                                                        0.184
                                                                  0.028
                                                                            0.241
##
      .ipudrst_r
                           0.004
                                     0.008
                                               0.451
                                                        0.652
                                                                  0.004
                                                                            0.043
                                                                  0.030
                                     0.007
                                               4.292
                                                        0.000
                                                                            0.240
##
      .impenv_r
                           0.030
##
##
   R-Square:
##
                       Estimate
##
                           0.309
       STrasc_b
##
       Benev_b
                           0.661
##
       Unive_b
                           0.659
##
       iphlppl_r
                           0.791
##
       iplylfr_r
                           0.918
##
                           0.759
       ipeqopt_r
##
       ipudrst_r
                           0.957
##
       impenv_r
                           0.760
##
   $FIT
##
##
                              npar
                                                               fmin
                            25.000
                                                              2.905
##
##
                             chisq
                                                                 df
                                                             50.000
##
                          3578.805
                            pvalue
##
                                                      chisq.scaled
##
                             0.000
                                                           1235.377
##
                         df.scaled
                                                     pvalue.scaled
##
                            50.000
                                                              0.000
             chisq.scaling.factor
                                                    baseline.chisq
##
##
                             2.897
                                                          61286.099
##
                       baseline.df
                                                   baseline.pvalue
##
                            60.000
                                                              0.000
##
            baseline.chisq.scaled
                                                baseline.df.scaled
##
                         19448.415
##
          baseline.pvalue.scaled baseline.chisq.scaling.factor
##
                             0.000
                                                              3.151
##
                               cfi
                                                                tli
                             0.942
                                                              0.931
##
##
                       cfi.scaled
                                                        tli.scaled
##
                             0.939
                                                              0.927
##
                       cfi.robust
                                                        tli.robust
##
                             0.944
                                                              0.933
##
                                                 unrestricted.log1
                              logl
##
                       -369563.987
                                                       -367774.585
##
                                                                bic
                               aic
##
                       739177.975
                                                        739382.621
##
                            ntotal
                                                               bic2
                         26525.000
##
                                                        739303.171
##
                scaling.factor.h1
                                                 scaling.factor.h0
##
                             5.121
                                                              9.569
##
                             rmsea
                                                    rmsea.ci.lower
##
                             0.052
                                                              0.050
##
                   rmsea.ci.upper
                                                      rmsea.pvalue
```

```
0.053
##
                                                            0.034
##
                     rmsea.scaled
                                           rmsea.ci.lower.scaled
                            0.030
                                                            0.029
##
##
           rmsea.ci.upper.scaled
                                             rmsea.pvalue.scaled
##
                            0.031
                                                            1.000
                                           rmsea.ci.lower.robust
##
                     rmsea.robust
##
                            0.051
                                                            0.048
##
           rmsea.ci.upper.robust
                                             rmsea.pvalue.robust
##
                            0.053
                                                               ΝA
##
                             srmr
                                                      srmr_within
                            0.244
                                                            0.035
##
                     srmr_between
##
                            0.209
##
##
   $PE
##
                           rhs block level exo
                                                           est
## 1
                                                 1.000000e+00 0.0000000000
         Benev_w =~ iphlppl_r
                                    1
                                          1
                                              0
##
         Benev w =~ iplylfr r
                                                 7.061688e-01 0.0493642097
##
   3
                                                 1.000000e+00 0.0000000000
         Unive_w =~ ipeqopt_r
                                    1
                                          1
##
  4
         Unive w =~ ipudrst r
                                    1
                                                 8.392263e-01 0.0350364627
## 5
         Unive_w =~
                      impenv_r
                                    1
                                          1
                                                 7.229147e-01 0.0438294352
   6
        STrasc w =~
                       Unive w
                                                 1.000000e+00 0.0000000000
##
## 7
        STrasc_w =~
                                                 1.000000e+00 0.0000000000
                       Benev_w
                                    1
                                          1
   8
                                                -8.488482e-04 0.0006013095
##
        STrasc w
                          agea
                                    1
                                          1
##
                                                 1.927589e-01 0.0168314593
  9
        STrasc w
                         gndrD
                                    1
  10
        STrasc w
                       eisced2
                                    1
                                                 8.372235e-02 0.0171987330
##
   11
        STrasc_w
                       eisced3
                                                 1.348866e-01 0.0242970848
                                    1
                                          1
##
   12
        STrasc_w
                      domicil2
                                    1
                                          1
                                                 2.348628e-02 0.0176127594
                  ~
## 13
                                                 5.673031e-02 0.0272203220
        STrasc_w
                      domicil3
                                          1
## 14
        STrasc_w
                      domicil4
                                   1
                                          1
                                                 4.447262e-02 0.0228097763
## 15
        STrasc_w ~~
                      STrasc_w
                                    1
                                          1
                                                 3.000000e-01 0.0000000000
##
   16
         Benev_w ~~
                       Benev_w
                                    1
                                          1
                                                 2.000000e-01 0.0000000000
##
   17
         Unive_w ~~
                       Unive_w
                                                 2.000000e-01 0.0000000000
                                                 3.503005e-01 0.0390425603
##
   18
       iphlppl_r ~~ iphlppl_r
                                    1
                                          1
##
   19
       iplylfr_r ~~ iplylfr_r
                                    1
                                                 4.603465e-01 0.0225423608
##
                                                 6.601316e-01 0.0409667743
   20
       ipeqopt_r ~~ ipeqopt_r
                                    1
                                          1
##
   21
       ipudrst r ~~ ipudrst r
                                                 6.457592e-01 0.0238095609
## 22
        impenv_r ~~
                      impenv_r
                                    1
                                                 6.922019e-01 0.0445130614
                                          1
## 23
                                    1
                                                 3.476750e+02 0.0000000000
            agea ~~
                          agea
  24
##
                                    1
                                                 2.426912e-01 0.0000000000
                         gndrD
            agea ~~
##
   25
                                              1 -6.507168e-01 0.0000000000
            agea ~~
                       eisced2
## 26
            agea ~~
                       eisced3
                                              1 -5.406374e-01 0.0000000000
                                    1
                                              1 -4.031874e-02 0.0000000000
   27
            agea ~~
                      domicil2
                                    1
   28
##
            agea ~~
                      domicil3
                                    1
                                          1
                                                 7.142469e-02 0.0000000000
   29
            agea ~~
                      domicil4
                                    1
                                          1
                                              1 -3.147939e-01 0.0000000000
## 30
                                              1 2.492865e-01 0.0000000000
           gndrD ~~
                                    1
                         gndrD
                                          1
##
   31
           gndrD ~~
                       eisced2
                                    1
                                                 2.435458e-03 0.0000000000
  32
##
           gndrD ~~
                       eisced3
                                                 1.850434e-03 0.0000000000
##
   33
           gndrD ~~
                      domicil2
                                    1
                                                5.429576e-03 0.0000000000
           gndrD ~~
##
   34
                      domicil3
                                    1
                                                 2.237286e-05 0.0000000000
##
   35
           gndrD ~~
                      domicil4
                                    1
                                                 1.692725e-04 0.0000000000
                                          1
         eisced2 ~~
                                   1
## 36
                       eisced2
                                              1 2.174369e-01 0.0000000000
## 37
         eisced2 ~~
                       eisced3
                                   1
                                          1
                                              1 -7.776361e-02 0.0000000000
         eisced2 ~~ domicil2
## 38
                                              1 5.859252e-03 0.0000000000
```

```
## 39
         eisced2 ~~
                      domicil3
                                              1 -1.655407e-03 0.0000000000
##
   40
         eisced2 ~~
                                                 3.408555e-03 0.0000000000
                      domici14
                                    1
         eisced3 ~~
##
   41
                       eisced3
                                                 1.841335e-01 0.0000000000
##
  42
         eisced3 ~~
                      domicil2
                                              1 -2.470509e-03 0.0000000000
                                    1
##
   43
         eisced3 ~~
                      domicil3
                                                 1.013673e-02 0.0000000000
   44
                      domicil4
                                              1 1.310933e-02 0.0000000000
##
         eisced3 ~~
                                   1
                                          1
   45
        domicil2 ~~
                      domicil2
                                                 2.156720e-01 0.0000000000
## 46
        domicil2 ~~
                      domicil3
                                   1
                                          1
                                              1 -3.593941e-02 0.0000000000
##
   47
        domicil2 ~~
                      domicil4
                                   1
                                          1
                                              1 -5.486425e-02 0.0000000000
##
   48
        domicil3 ~~
                      domicil3
                                    1
                                          1
                                                 1.011539e-01 0.0000000000
##
   49
        domicil3 ~~
                      domicil4
                                    1
                                              1 -1.990702e-02 0.0000000000
        domicil4 ~~
                                                 1.439365e-01 0.0000000000
##
   50
                      domicil4
                                    1
                                          1
##
   51
       iphlppl_r ~1
                                   1
                                          1
                                                 0.000000e+00 0.0000000000
                                   1
                                                 0.000000e+00 0.0000000000
##
   52
       iplylfr_r ~1
                                          1
                                   1
                                                 0.000000e+00 0.0000000000
##
   53
       ipeqopt_r ~1
                                          1
##
   54
       ipudrst_r ~1
                                    1
                                          1
                                              0
                                                 0.000000e+00 0.0000000000
                                    1
##
   55
        impenv_r ~1
                                          1
                                                 0.000000e+00 0.0000000000
##
   56
                                    1
                                                 4.992818e+01 0.0000000000
            agea ~1
   57
                                                 5.267107e-01 0.0000000000
##
           gndrD ~1
                                    1
                                          1
##
   58
         eisced2 ~1
                                    1
                                          1
                                                 3.195476e-01 0.0000000000
##
   59
         eisced3 ~1
                                    1
                                          1
                                                 2.433553e-01 0.0000000000
   60
        domicil2 ~1
                                   1
                                          1
                                                 3.147220e-01 0.0000000000
##
## 61
                                                 1.141942e-01 0.0000000000
        domicil3 ~1
                                   1
                                          1
                                              1
                                   1
                                                 1.743261e-01 0.0000000000
##
   62
        domicil4 ~1
                                          1
                                   1
##
  63
         Benev w ~1
                                          1
                                                 0.000000e+00 0.000000000
   64
         Unive w ~1
                                   1
                                          1
                                                 0.000000e+00 0.0000000000
   65
        STrasc_w ~1
                                   1
                                                 0.000000e+00 0.0000000000
##
                                          1
                                    2
                                          2
##
   66
         Benev_b =~ iphlppl_r
                                                 1.000000e+00 0.0000000000
                                    2
                                          2
   67
##
         Benev_b =~ iplylfr_r
                                                 1.060132e+00 0.0125836902
                                    2
##
   68
         Unive_b =~ ipeqopt_r
                                          2
                                                 1.000000e+00 0.0000000000
                                    2
                                          2
## 69
         Unive_b =~ ipudrst_r
                                              0
                                                 9.714103e-01 0.0100772265
##
  70
         Unive_b =~
                      impenv_r
                                    2
                                          2
                                                 1.041295e+00 0.0148664161
                                    2
                                          2
##
  71
        STrasc_b =~
                       Unive_b
                                                 1.000000e+00 0.0000000000
                                    2
                                          2
##
  72
        STrasc_b =~
                       Benev_b
                                                 1.004372e+00 0.0085417733
                                    2
                                          2
##
   73
        STrasc b
                           HDI
                                                 5.150837e+00 0.0859607274
   74
                                   2
                                          2
                                                 0.000000e+00 0.0000000000
##
       iphlppl_r ~1
##
   75
        impenv r ~1
                                    2
                                          2
                                                 0.000000e+00 0.000000000
##
  76
       ipudrst_r ~1
                                    2
                                          2
                                              0
                                                 0.000000e+00 0.0000000000
                                   2
                                                 0.000000e+00 0.0000000000
##
   77
       iplylfr_r ~1
                                   2
                                          2
                                                 0.000000e+00 0.0000000000
##
   78
       ipeqopt_r ~1
   79
        STrasc b ~~
                      STrasc b
                                                 4.000000e-02 0.0000000000
  80
         Benev b ~~
                                    2
                                          2
                                                 3.000000e-02 0.0000000000
##
                       Benev b
                                    2
##
   81
         Unive b ~~
                       Unive b
                                          2
                                                 3.000000e-02 0.0000000000
                                    2
                                          2
       iphlppl_r ~~ iphlppl_r
                                                 2.329496e-02 0.0234209441
##
   82
                                    2
                                          2
##
   83
       iplylfr_r ~~ iplylfr_r
                                                 8.827815e-03 0.0209618120
                                    2
                                          2
       ipeqopt_r ~~ ipeqopt_r
                                              0
                                                 2.787580e-02 0.0209900840
##
   84
                                    2
                                          2
##
   85
       ipudrst_r ~~ ipudrst_r
                                                 3.739157e-03 0.0082872227
                                    2
                                          2
##
   86
        impenv_r ~~
                      impenv_r
                                                 3.004670e-02 0.0070005264
                                    2
##
   87
             HDI ~~
                           HDT
                                          2
                                                 6.743929e-04 0.0000000000
                                    2
                                          2
##
   88
             HDI ~1
                                                 9.135000e-01 0.0000000000
                                    2
##
   89
                                          2
                                                 0.000000e+00 0.0000000000
         Benev_b ~1
                                   2
                                          2
## 90
         Unive_b ~1
                                                 0.000000e+00 0.0000000000
## 91
        STrasc b ~1
                                    2
                                          2
                                              0
                                                 0.000000e+00 0.0000000000
## 92
        STrasc w r2 STrasc w
                                          1
                                              0
                                                 4.385981e-02
                                                                          NA
```

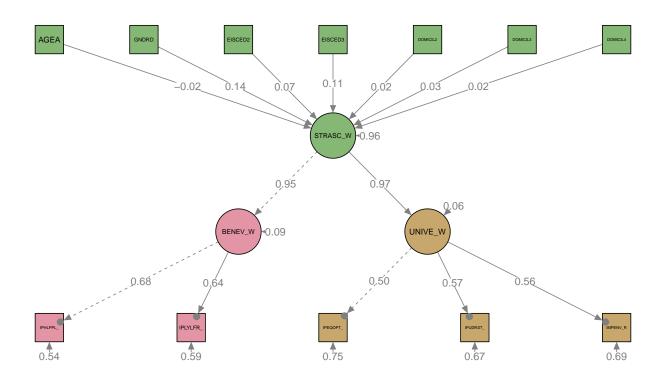
```
## 93
         Benev_w r2
                       Benev w
                                                 6.107143e-01
                                                                          NA
                                    1
                                          1
## 94
                       Unive_w
                                                                          NΑ
         Unive_w r2
                                                 6.107143e-01
                                                 5.945887e-01
       iphlppl_r r2 iphlppl_r
                                                                          NA
                                                 3.575481e-01
                                                                          NA
   96
       iplylfr_r r2 iplylfr_r
                                    1
                                              0
##
   97
       ipeqopt_r r2 ipeqopt_r
                                    1
                                          1
                                                  4.376561e-01
                                                                          NA
   98
       ipudrst r r2 ipudrst r
                                    1
                                          1
                                              0
                                                 3.591127e-01
                                                                          NA
##
   99
        impenv r r2
                      impenv r
                                    1
                                          1
                                                  2.794791e-01
                                                                          NA
## 100
        STrasc b r2
                      STrasc b
                                    2
                                          2
                                              0
                                                 3.090630e-01
                                                                          NA
##
  101
         Benev_b r2
                       Benev b
                                    2
                                          2
                                                  6.606326e-01
                                                                          NA
  102
                                    2
                                          2
         Unive_b r2
                       Unive_b
                                                  6.586736e-01
                                                                          NA
  103 iphlppl_r r2 iphlppl_r
                                    2
                                          2
                                                 7.914408e-01
                                                                          NA
                                    2
                                          2
   104
       iplylfr_r r2 iplylfr_r
                                              0
                                                 9.183959e-01
                                                                          NA
                                    2
       ipeqopt_r r2 ipeqopt_r
                                          2
                                                 7.592102e-01
                                                                          NA
   105
                                    2
                                          2
                                                 9.568614e-01
       ipudrst_r r2 ipudrst_r
                                              0
                                                                          NA
   107
                                          2
                                              0
                                                 7.602937e-01
                                                                          NA
        impenv_r r2
                      impenv_r
##
                          pvalue
                                         std.lv
                                                       std.all
                                                                      std.nox
                  z
## 1
                 NA
                                   7.167716e-01
                                                  0.7710957840
                                                                7.710958e-01
                               NA
##
        14.3052793 0.000000e+00
                                   5.061617e-01
                                                  0.5979532348
                                                                 5.979532e-01
##
  3
                NA
                              NA
                                   7.167716e-01
                                                 0.6615558275
                                                                 6.615558e-01
##
  4
        23.9529391
                   0.000000e+00
                                   6.015335e-01
                                                  0.5992601244
                                                                5.992601e-01
##
  5
        16.4938164 0.000000e+00
                                   5.181647e-01
                                                 0.5286578742
                                                                5.286579e-01
##
   6
                                                  0.7814821339
                                   7.814821e-01
                                                                7.814821e-01
##
  7
                                  7.814821e-01
                                                 0.7814821339
                                                                7.814821e-01
                NA
                              NA
   8
        -1.4116660 1.580483e-01
##
                                 -1.515410e-03
                                                -0.0282564052
                                                               -1.515410e-03
                                                 0.1718161769
##
  9
        11.4522997 0.000000e+00
                                   3.441237e-01
                                                                3.441237e-01
  10
         4.8679370 1.127693e-06
                                   1.494657e-01
                                                 0.0696960582
                                                                1.494657e-01
##
   11
         5.5515558 2.831384e-08
                                   2.408070e-01
                                                 0.1033321470
                                                                 2.408070e-01
##
   12
         1.3334810 1.823740e-01
                                   4.192899e-02
                                                 0.0194720350
                                                                 4.192899e-02
## 13
                                                                 1.012781e-01
         2.0841162 3.714960e-02
                                   1.012781e-01
                                                  0.0322111744
## 14
         1.9497176 5.120979e-02
                                   7.939495e-02
                                                  0.0301216238
                                                                 7.939495e-02
## 15
                NA
                              NA
                                   9.561402e-01
                                                  0.9561401903
                                                                9.561402e-01
##
  16
                NA
                              NΑ
                                   3.892857e-01
                                                  0.3892856744
                                                                 3.892857e-01
##
  17
                 NA
                              NA
                                   3.892857e-01
                                                  0.3892856744
                                                                 3.892857e-01
  18
         8.9722728 0.000000e+00
##
                                   3.503005e-01
                                                 0.4054112919
                                                                 4.054113e-01
##
   19
        20.4213963 0.000000e+00
                                   4.603465e-01
                                                  0.6424519290
                                                                 6.424519e-01
                                                                5.623439e-01
##
  20
        16.1138303 0.000000e+00
                                   6.601316e-01
                                                 0.5623438872
##
  21
        27.1218445 0.000000e+00
                                   6.457592e-01
                                                  0.6408873033
                                                                6.408873e-01
## 22
        15.5505342 0.000000e+00
                                   6.922019e-01
                                                  0.7205208521
                                                                7.205209e-01
## 23
                 NA
                                   3.476750e+02
                                                  1.000000000
                                                                3.476750e+02
##
  24
                NA
                                   2.426912e-01
                                                 0.0260686109
                                                                2.426912e-01
  25
                NA
                                  -6.507168e-01 -0.0748408359 -6.507168e-01
## 26
                NA
                                  -5.406374e-01 -0.0675698567 -5.406374e-01
##
  27
                 NA
                                  -4.031874e-02 -0.0046561113 -4.031874e-02
##
  28
                 NA
                                  7.142469e-02
                                                0.0120439915
                                                                7.142469e-02
## 29
                 NA
                                 -3.147939e-01 -0.0444993986 -3.147939e-01
## 30
                                                                2.492865e-01
                 NA
                              NA
                                   2.492865e-01
                                                 1.0000000000
##
   31
                NA
                              NA
                                   2.435458e-03
                                                 0.0104607929
                                                                 2.435458e-03
##
  32
                NA
                              NA
                                   1.850434e-03
                                                  0.0086368958
                                                                1.850434e-03
                                   5.429576e-03
##
  33
                NA
                              NΑ
                                                  0.0234163679
                                                                5.429576e-03
##
  34
                 NA
                              NA
                                   2.237286e-05
                                                  0.0001408902
                                                                2.237286e-05
##
  35
                 NΑ
                              NΑ
                                   1.692725e-04
                                                  0.0008936171
                                                                 1.692725e-04
## 36
                NA
                                   2.174369e-01
                                                  1.0000000000
                                                                2.174369e-01
## 37
                NA
                              NA -7.776361e-02 -0.3886362784 -7.776361e-02
## 38
                 NA
                                  5.859252e-03 0.0270569353 5.859252e-03
```

```
## 39
                               NA -1.655407e-03 -0.0111621259 -1.655407e-03
                 NA
## 40
                 NA
                                   3.408555e-03 0.0192671785
                                                                3.408555e-03
                                                 1.0000000000
##
  41
                 NA
                                   1.841335e-01
                                                                 1.841335e-01
                                  -2.470509e-03 -0.0123971859 -2.470509e-03
##
  42
                 NA
##
  43
                 NA
                                   1.013673e-02
                                                  0.0742745760
                                                                 1.013673e-02
                                   1.310933e-02
                                                 0.0805246015
                                                                 1.310933e-02
##
  44
                 NA
## 45
                 NA
                              NA
                                   2.156720e-01
                                                 1.0000000000
                                                                 2.156720e-01
## 46
                 NA
                               NΑ
                                  -3.593941e-02 -0.2433227894 -3.593941e-02
##
  47
                 NA
                              NA
                                  -5.486425e-02 -0.3113917174 -5.486425e-02
##
   48
                 NΑ
                               NA
                                   1.011539e-01
                                                  1.0000000000
                                                                 1.011539e-01
##
  49
                 NA
                                  -1.990702e-02 -0.1649793583 -1.990702e-02
                              NA
##
  50
                 NΑ
                               NA
                                   1.439365e-01
                                                  1.0000000000
                                                                 1.439365e-01
## 51
                 NA
                                   0.000000e+00
                                                  0.000000000
                                                                 0.000000e+00
                              NA
## 52
                                                                 0.000000e+00
                 NA
                               NA
                                   0.000000e+00
                                                  0.000000000
## 53
                 NA
                              NA
                                   0.000000e+00
                                                  0.000000000
                                                                 0.000000e+00
##
  54
                               NA
                                   0.00000e+00
                                                  0.000000000
                                                                 0.000000e+00
                 NA
  55
##
                 NA
                                   0.000000e+00
                                                  0.000000000
                                                                 0.000000e+00
                              NA
   56
##
                 NA
                              NA
                                   4.992818e+01
                                                  2.6776822518
                                                                 4.992818e+01
##
  57
                                   5.267107e-01
                                                                 5.267107e-01
                 NA
                              NΑ
                                                  1.0549276711
##
   58
                 NA
                               NΑ
                                   3.195476e-01
                                                  0.6852813325
                                                                 3.195476e-01
##
  59
                 NA
                              NΑ
                                   2.433553e-01
                                                  0.5671193128
                                                                 2.433553e-01
##
  60
                 NA
                              NΑ
                                   3.147220e-01
                                                  0.6776885010
                                                                 3.147220e-01
## 61
                              NA
                                   1.141942e-01
                                                  0.3590481306
                                                                 1.141942e-01
                 NA
##
   62
                 NA
                              NA
                                   1.743261e-01
                                                  0.4594909268
                                                                 1.743261e-01
##
  63
                 NA
                              NΑ
                                   0.000000e+00
                                                  0.000000000
                                                                 0.000000e+00
##
   64
                 NA
                              NA
                                   0.000000e+00
                                                  0.000000000
                                                                 0.000000e+00
##
   65
                 NΑ
                               NA
                                   0.000000e+00
                                                  0.000000000
                                                                 0.000000e+00
##
   66
                 NA
                               NA
                                   2.973210e-01
                                                  0.8896295868
                                                                 8.896296e-01
##
   67
        84.2465275
                    0.000000e+00
                                   3.151996e-01
                                                  0.9583297478
                                                                 9.583297e-01
##
   68
                 NA
                               NA
                                   2.964665e-01
                                                                 8.713267e-01
                                                  0.8713267177
##
   69
        96.3965952 0.000000e+00
                                   2.879906e-01
                                                  0.9781929276
                                                                 9.781929e-01
##
   70
        70.0434346 0.000000e+00
                                   3.087091e-01
                                                  0.8719482403
                                                                 8.719482e-01
##
   71
                 NA
                                   8.115871e-01
                                                  0.8115870662
                                                                 8.115871e-01
##
   72
       117.5835996
                    0.000000e+00
                                   8.127931e-01
                                                  0.8127930918
                                                                 8.127931e-01
   73
        59.9208211
                    0.000000e+00
                                   2.140755e+01
                                                                 2.140755e+01
##
                                                  0.5559343837
##
  74
                 NΑ
                              NΑ
                                   0.000000e+00
                                                  0.000000000
                                                                 0.00000e+00
##
  75
                 NA
                                   0.000000e+00
                                                  0.000000000
                                                                 0.000000e+00
## 76
                                                                 0.000000e+00
                 NA
                              NA
                                   0.000000e+00
                                                  0.000000000
##
  77
                 NA
                              NΑ
                                   0.000000e+00
                                                  0.000000000
                                                                 0.000000e+00
  78
                 NA
                              ΝA
                                   0.00000e+00
                                                  0.000000000
                                                                 0.000000e+00
##
##
   79
                 NA
                              NA
                                   6.909370e-01
                                                  0.6909369611
                                                                 6.909370e-01
##
  80
                 NA
                              NΑ
                                   3.393674e-01
                                                  0.3393673899
                                                                 3.393674e-01
##
   81
                 NA
                               NA
                                   3.413264e-01
                                                  0.3413264340
                                                                 3.413264e-01
##
   82
         0.9946211 3.199206e-01
                                   2.329496e-02
                                                  0.2085591983
                                                                 2.085592e-01
##
   83
         0.4211380 6.736543e-01
                                   8.827815e-03
                                                  0.0816040944
                                                                 8.160409e-02
                                   2.787580e-02
                                                                 2.407898e-01
##
   84
         1.3280459 1.841629e-01
                                                  0.2407897510
##
   85
         0.4511955 6.518487e-01
                                   3.739157e-03
                                                  0.0431385964
                                                                 4.313860e-02
##
   86
         4.2920626 1.770210e-05
                                   3.004670e-02
                                                  0.2397062662
                                                                 2.397063e-01
##
  87
                 NA
                              NΑ
                                   6.743929e-04
                                                  1.0000000000
                                                                 6.743929e-04
##
   88
                 NA
                               NA
                                   9.135000e-01
                                                 35.1764550515
                                                                 9.135000e-01
##
   89
                 NA
                              NA
                                   0.00000e+00
                                                  0.000000000
                                                                 0.000000e+00
## 90
                 NA
                              NA
                                   0.000000e+00
                                                  0.000000000
                                                                 0.000000e+00
## 91
                              NΑ
                                   0.000000e+00
                                                  0.000000000
                                                                 0.000000e+00
                 NA
## 92
                               NA
                                              NA
                                                             NA
                 NΑ
                                                                            NΑ
```

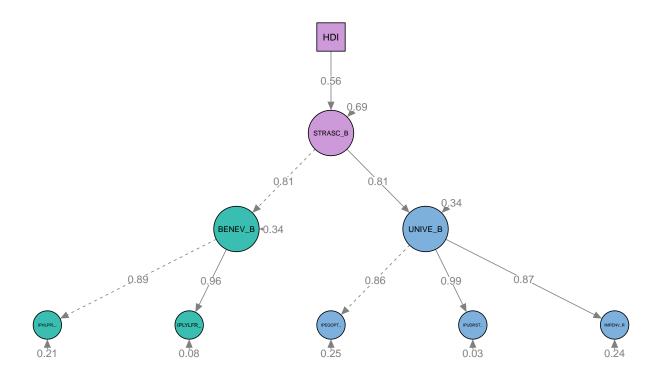
##	93	NA	NA	NA	NA	NA
##	94	NA	NA	NA	NA	NA
##	95	NA	NA	NA	NA	NA
##	96	NA	NA	NA	NA	NA
##	97	NA	NA	NA	NA	NA
##	98	NA	NA	NA	NA	NA
##	99	NA	NA	NA	NA	NA
##	100	NA	NA	NA	NA	NA
##	101	NA	NA	NA	NA	NA
##	102	NA	NA	NA	NA	NA
##	103	NA	NA	NA	NA	NA
##	104	NA	NA	NA	NA	NA
##	105	NA	NA	NA	NA	NA
##	106	NA	NA	NA	NA	NA
##	107	NA	NA	NA	NA	NA
##						

Reading model: C:\Users\pamel\Documents\ESS\MPLUS\msem9.out

Within



Between



```
#
#
# cntrylabels <- num_lab("</pre>
#
    1
        Austria
#
    2
        Belgium
#
    3
        Czechia
#
        Estonia
#
    5
        France
#
        Germany
#
    7
        Ireland
#
        Italy
#
    9
        Netherlands
#
    10 Norway
#
    11 Poland
#
    12 Slovenia
#
    13 Switzerland
#
    14
       United Kingdom"
# )
sum1 <-full_join(parameterEstimates(survey.semfit),</pre>
                 parameterEstimates(survey.semfit),
                 by=c("lhs", "op", "rhs"))
sum1 <- sum1 %>% 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, (Upper secondary
                                ifelse(rhs == "eisced3", "Highest level of education, (Bachelor or high
                                ifelse(rhs == "domicil2", "Domicile (Town or small city/Countryside)",
                                ifelse(rhs == "domicil3", "Domicile (Suburbs or outskirts of big city/C
                                ifelse(rhs == "domicil4", "Domicile (A big city/Countryside)",
                                ifelse(rhs == "HDI", "Human Development Index", rhs))))))))
sum3 <-full_join(parameterEstimates(survey.Msemfit8),</pre>
                 parameterEstimates(survey.Msemfit9),
                 by=c("lhs", "op", "rhs", "block", "level"))
sum3 <- sum3 %>% 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, (Upper secondary
                                ifelse(rhs == "eisced3", "Highest level of education, (Bachelor or high
                                ifelse(rhs == "domicil2", "Domicile (Town or small city/Countryside)",
                                ifelse(rhs == "domicil3", "Domicile (Suburbs or outskirts of big city/C
                                ifelse(rhs == "domicil4", "Domicile (A big city/Countryside)",
                                ifelse(rhs == "HDI", "Human Development Index", rhs))))))))
dir <- "G:/My Drive/Master in Statistics/Structural equations/Paper/"</pre>
write.table(sum1,paste0(dir,"ParametersCSemfit.csv"), sep = ",", row.names = FALSE)
write.table(sum3,paste0(dir,"ParametersMSemfit.csv"), sep = ",", row.names = FALSE)
```

MIMIC

```
mimicmodel21 <-'
Benev =~ iphlppl_r + iplylfr_r
Unive =~ ipeqopt_r + ipudrst_r + impenv_r
Benev ~~ Unive
Benev ~ agea + gndrD + eisced2 + eisced3 + domicil2 + domicil3 + domicil4 + HDI
Unive ~ agea + gndrD + eisced2 + eisced3 + domicil2 + domicil3 + domicil4 + HDI
for (r in c(8,9)) {
  ds_filtrada2 <- ds_filtradaAll %>% filter(essround == r)
  survey.design2 <- svydesign(ids=~idno, prob=~dweight, data=ds_filtrada2)</pre>
  lavaan.mimicfit <- lavaan(mimicmodel21, 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.mimicfit <- lavaan.survey(lavaan.fit=lavaan.mimicfit,survey.design=survey.design2)</pre>
```

```
assign(paste0("survey.mimicfit",r),survey.mimicfit)
  print(paste("ESS round: ", r))
  print(fitMeasures(survey.mimicfit, c("chisq","pvalue","cfi", "tli","rmsea", "srmr",
  print(modindices(survey.mimicfit,sort=T)[1:10,])
  invisible(semPaths(survey.mimicfit,"model","std","lisrel", edge.label.cex = 0.8, intercepts = FALSE,
                     groups = "latent", pastel = TRUE, exoCov = FALSE, optimizeLatRes = TRUE, rotation
  print(summary(survey.mimicfit, standardized=T, rsquare=T, fit.measures=T))
}
  [1] "ESS round: 8"
##
          chisq
                                         cfi
                                                                   rmsea
                        pvalue
                                                       t.li
##
        1885.927
                         0.000
                                       0.934
                                                     0.883
                                                                   0.049
##
                                                              tli.robust
            srmr chisq.scaled pvalue.scaled
                                                cfi.robust
##
          0.020
                       558.576
                                       0.000
                                                     0.936
                                                                   0.887
##
  rmsea.robust srmr_bentler
##
          0.048
                         0.020
##
            lhs op
                         rhs
                                        epc sepc.lv sepc.all sepc.nox
                                  mi
                                                       0.128
## 92 iplylfr_r ~~ impenv_r 234.120 0.077
                                              0.077
                                                                0.128
                   impenv_r 202.104 -0.595 -0.422
                                                      -0.408
                                                               -0.408
## 83
         Benev =~
## 95 ipudrst_r ~~ impenv_r 188.678 -0.091
                                            -0.091
                                                      -0.128
                                                               -0.128
## 93 ipeqopt_r ~~ ipudrst_r 145.176 0.083
                                              0.083
                                                      0.113
                                                                0.113
## 82
         Benev =~ ipudrst_r 71.288 0.388
                                              0.275
                                                       0.263
                                                                0.263
## 90 iplylfr_r ~~ ipeqopt_r 52.574 -0.038
                                            -0.038
                                                               -0.061
                                                      -0.061
## 81
         Benev = \sim ipeqopt_r 26.343 0.224
                                             0.158
                                                      0.148
                                                               0.148
```

-0.042

-0.036

0.026

0.014

-0.042

-0.036

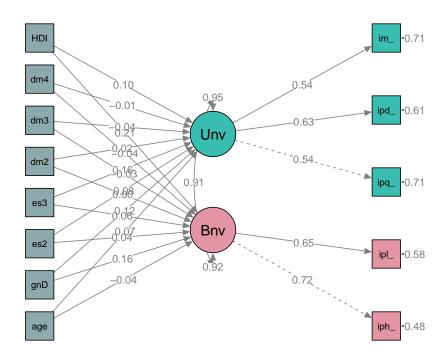
0.026

91 iplylfr r ~~ ipudrst r 19.302 -0.024 -0.024

87 iphlppl_r ~~ ipeqopt_r 14.457 -0.022 -0.022

5.585 0.014

88 iphlppl_r ~~ ipudrst_r



```
## lavaan 0.6-5 ended normally after 105 iterations
##
##
     Estimator
                                                         ML
##
     Optimization method
                                                     NLMINB
##
     Number of free parameters
                                                         32
##
     Number of observations
                                                      27310
##
##
## Model Test User Model:
                                                   Standard
                                                                 Robust
##
     Test Statistic
                                                   1885.927
                                                                558.576
##
##
     Degrees of freedom
                                                         28
                                                                     28
##
     P-value (Chi-square)
                                                      0.000
                                                                  0.000
##
     Scaling correction factor
                                                                  3.376
       for the Satorra-Bentler correction
##
##
## Model Test Baseline Model:
##
##
     Test statistic
                                                  28331.529
                                                              10978.076
     Degrees of freedom
##
                                                         50
                                                                     50
                                                                  0.000
##
     P-value
                                                      0.000
                                                                  2.581
##
     Scaling correction factor
## User Model versus Baseline Model:
##
##
     Comparative Fit Index (CFI)
                                                      0.934
                                                                  0.951
```

## ##	Tucker-Lewis In	dex (TLI)			0.883	0.9	13
##	Robust Comparat	ive Fit Ind	ex (CFI)			0.9	36
##	- · · · · · · · · · · · · · · · · · · ·					87	
##							
	Loglikelihood and	Information	n Criteri	a:			
##	I amlikalihaad u	ugam madal (u0)	_20	1006 404	-321826.4	0.4
## ##	Loglikelihood u Loglikelihood u					-321828.4	
##	LogIIACIIIIOOG	micbuicucu	model (II	.1) 02	.0000.001	020000.0	01
##	Akaike (AIC)			64	3716.988	643716.9	88
##	Bayesian (BIC)			64	3979.868	643979.8	68
##	Sample-size adj	usted Bayes	ian (BIC)	64	3878.173	643878.1	73
##							
	Root Mean Square	Error of Ap	proximati	on:			
##	RMSEA				0.049	0.0	26
##		idence inte	rval - lo	wer	0.049		
	90 Percent conf				0.051		
##			•	-	0.728	1.0	00
##							
##						0.0	
	90 Percent conf					0.0	
##	90 Percent conf	idence inte	rval - up	per		0.0	52
##	Standardized Root	Mean Sauar	o Rosidua	1.			
##	Dtandard12ed 11000	ricair bquar	C IICBIAAA	.			
##	SRMR				0.020	0.0	20
##							
##	Parameter Estimat	es:					
##					_	_	
##					_	cted	
## ##			model	Pohua	Struct t.cluster		
##	Standard errors	•		nobus	t.Clustel	. Sem	
	Latent Variables:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev =~						
##	iphlppl_r	1.000				0.708	0.720
##	iplylfr_r	0.821	0.015	54.522	0.000	0.582	0.646
##	Unive =~	1 000				0 501	0 540
## ##	ipeqopt_r ipudrst_r	1.000 1.125	0.022	50.124	0.000	0.581 0.654	0.542 0.626
##	impenv_r	0.955	0.022	43.943	0.000	0.555	0.537
##		0.000	****	10.010		0.000	0.00.
##	Regressions:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev ~						
##	agea	-0.001	0.000	-4.496	0.000	-0.002	-0.039
##	gndrD	0.230	0.012	18.498	0.000	0.325	0.162
## ##	eisced2 eisced3	0.059 0.100	0.015 0.015	4.064 6.798	0.000	0.083 0.141	0.038 0.059
##	domicil2	0.100	0.013	0.798	0.608	0.141	0.005
##	domicil3	-0.078	0.020	-3.881	0.000	-0.110	-0.034

##	domicil4	-0.081	0.019	-4.283	0.000	-0.114	-0.043
##	HDI	5.647	0.217	25.992	0.000	7.970	0.210
##	Unive ~						
##	agea	0.002	0.000	7.755	0.000	0.004	0.071
##	${ t gndrD}$	0.135	0.011	12.457	0.000	0.233	0.116
##	eisced2	0.104	0.013	8.017	0.000	0.178	0.082
##	eisced3	0.226	0.013	17.148	0.000	0.389	0.163
##	domicil2	0.028	0.012	2.342	0.019	0.048	0.023
##	domicil3	-0.077	0.019	-4.015	0.000	-0.133	-0.041
##	domicil4	-0.013	0.017	-0.753	0.452	-0.022	-0.008
##	HDI	2.237	0.195	11.478	0.000	3.850	0.102
##							
##	Covariances:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.Benev ~~						
##	.Unive	0.351	0.008	44.595	0.000	0.912	0.912
##							
##	Intercepts:						
##	-	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.iphlppl_r	-0.389	0.199	-1.955	0.051	-0.389	-0.396
##	.iplylfr_r	0.796	0.171	4.666	0.000	0.796	0.884
##	.ipeqopt_r	2.504	0.178	14.082	0.000	2.504	2.336
##	.ipudrst_r	2.061	0.195	10.546	0.000	2.061	1.974
##	.impenv_r	2.638	0.163	16.138	0.000	2.638	2.554
##	.Benev	0.000				0.000	0.000
##	.Unive	0.000				0.000	0.000
##							
##	Variances:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.iphlppl_r	0.466	0.010	46.116	0.000	0.466	0.482
##	.iplylfr_r	0.472	0.009	51.964	0.000	0.472	0.582
##	.ipeqopt_r	0.811	0.013	60.105	0.000	0.811	0.706
##	.ipudrst_r	0.663	0.012	55.030	0.000	0.663	0.608
##	.impenv_r	0.759	0.013	59.392	0.000	0.759	0.711
##	.Benev	0.464	0.011	40.467	0.000	0.924	0.924
##	.Unive	0.320	0.011	29.527	0.000	0.947	0.947
##							
	R-Square:						
##	1	Estimate					
##	iphlppl_r	0.518					
##	iplylfr_r	0.418					
##	ipeqopt_r	0.294					
##	ipudrst_r	0.392					
##	impenv_r	0.289					
##	Benev	0.076					
##	Unive	0.053					
##	011110	0.000					
##	\$FIT						
##	ΨΙΙΙ	npa	r			fmin	
##		32.00				.035	
##		chis			U	.035 df	
##		1885.92			၁ Ձ	.000	
##		pvalu			chisq.sc		
##		0.00			-	.576	
π#		0.00			550	.010	

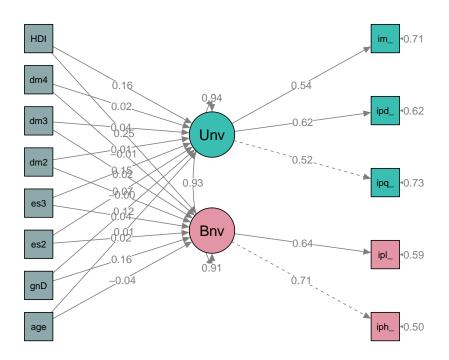
```
##
                        df.scaled
                                                   pvalue.scaled
##
                           28.000
                                                            0.000
                                                   baseline.chisq
##
            chisq.scaling.factor
                                                        28331.529
##
                            3.376
##
                      baseline.df
                                                 baseline.pvalue
##
                           50.000
                                                            0.000
##
           baseline.chisq.scaled
                                              baseline.df.scaled
                        10978.076
                                                           50.000
##
##
          baseline.pvalue.scaled baseline.chisq.scaling.factor
##
                            0.000
                                                            2.581
##
                              cfi
                                                              tli
                            0.934
                                                            0.883
##
##
                       cfi.scaled
                                                       tli.scaled
##
                            0.951
                                                            0.913
##
                       cfi.robust
                                                       tli.robust
##
                            0.936
                                                            0.887
##
                                               unrestricted.log1
                             logl
##
                      -321826.494
                                                      -320883.531
##
                                                              bic
                              aic
##
                       643716.988
                                                       643979.868
##
                           ntotal
                                                             bic2
##
                        27310.000
                                                       643878.173
##
                                                  rmsea.ci.lower
                            rmsea
                            0.049
##
                                                            0.047
##
                   rmsea.ci.upper
                                                     rmsea.pvalue
##
                            0.051
                                                            0.728
##
                     rmsea.scaled
                                           rmsea.ci.lower.scaled
##
                            0.026
                                                            0.025
##
                                             rmsea.pvalue.scaled
           rmsea.ci.upper.scaled
##
                            0.027
                                                            1.000
##
                     rmsea.robust
                                           rmsea.ci.lower.robust
##
                            0.048
                                                            0.045
##
           rmsea.ci.upper.robust
                                             rmsea.pvalue.robust
##
                            0.052
                                                               NA
##
                             srmr
##
                            0.020
##
##
  $PE
##
                          rhs exo
            lhs op
                                             est
                                                            se
                                                                         z
## 1
          Benev =~ iphlppl_r
                                0
                                   1.000000e+00 0.0000000000
##
          Benev =~ iplylfr r
                                   8.212705e-01 0.0150630937 54.5220327
## 3
          Unive =~ ipeqopt_r
                                0
                                   1.000000e+00 0.0000000000
                                   1.124699e+00 0.0224381569 50.1243813
          Unive =~ ipudrst r
                                0
## 5
          Unive =~
                                   9.552540e-01 0.0217382832 43.9433953
                     impenv_r
## 6
          Benev ~~
                        Unive
                                   3.513318e-01 0.0078782936 44.5949060
## 7
                                0 -1.492212e-03 0.0003318774 -4.4962730
          Benev
                         agea
                        gndrD
                                   2.300891e-01 0.0124384293 18.4982434
## 8
          Benev
## 9
                                   5.903708e-02 0.0145273966
          Benev
                      eisced2
                                                                4.0638446
## 10
          Benev
                      eisced3
                                   9.981064e-02 0.0146833068
                                                                6.7975587
                                  7.163943e-03 0.0139516723
## 11
          Benev
                     domicil2
                                                                0.5134827
## 12
                     domicil3
                                0 -7.818198e-02 0.0201446915 -3.8810216
          Benev
## 13
                     domicil4
                                0 -8.099094e-02 0.0189099366 -4.2829833
          Benev
          Benev
## 14
                          HDI
                                0 5.646678e+00 0.2172479790 25.9918565
                                0 2.216308e-03 0.0002857977 7.7548136
## 15
          Unive
                         agea
```

```
## 16
                                   1.353487e-01 0.0108649012 12.4574279
          Unive
                        gndrD
##
   17
          Unive
                      eisced2
                                    1.035532e-01 0.0129162107
                                                                8.0173053
##
   18
          Unive
                      eisced3
                                    2.259937e-01 0.0131786417 17.1484806
##
  19
                     domicil2
                                    2.791937e-02 0.0119186753
                                                                 2.3424892
          Unive
##
   20
          Unive
                     domicil3
                                 0 -7.745455e-02 0.0192896345 -4.0153456
  21
##
                     domicil4
                                 0 -1.302709e-02 0.0173062960 -0.7527369
          Unive
##
  22
          Unive
                          HDI
                                    2.237061e+00 0.1948922118 11.4784538
      iphlppl_r ~~ iphlppl_r
##
  23
                                 0
                                    4.664635e-01 0.0101149473 46.1162577
      iplylfr_r ~~
                   iplylfr_r
                                 0
                                    4.720567e-01 0.0090843421 51.9637760
##
   24
      ipeqopt_r ~~
                    ipeqopt_r
                                 0
                                    8.113396e-01 0.0134986933 60.1050442
   26
      ipudrst_r ~~ ipudrst_r
                                    6.627924e-01 0.0120441521 55.0302277
##
   27
       impenv_r ~~
                     impenv_r
                                 0
                                    7.585563e-01 0.0127720968 59.3916816
                        Benev
##
   28
                                 0
                                    4.637099e-01 0.0114590916 40.4665529
          Benev ~~
   29
##
          Unive ~~
                        Unive
                                    3.198393e-01 0.0108322147 29.5266758
##
  30
                                    3.427142e+02 0.0000000000
           agea ~~
                         agea
                                                                        NΑ
##
   31
                        gndrD
                                    3.514386e-01 0.0000000000
                                                                        NA
           agea ~~
##
   32
                                 1 -8.641592e-01 0.0000000000
                                                                        NA
                      eisced2
           agea ~~
##
   33
                                 1 -5.996190e-01 0.0000000000
                                                                        NA
           agea ~~
                      eisced3
   34
##
                     domicil2
                                 1 -1.137346e-01 0.0000000000
                                                                        NΑ
           agea ~~
##
   35
           agea ~~
                     domicil3
                                    1.829517e-02 0.0000000000
                                                                        NA
##
   36
           agea ~~
                     domicil4
                                 1 -3.808200e-01 0.0000000000
                                                                        NΑ
   37
##
           agea ~~
                          HDI
                                    1.074974e-02 0.0000000000
                                                                        NΑ
  38
##
          gndrD ~~
                                    2.495591e-01 0.0000000000
                                                                        NA
                        gndrD
                                 1
##
   39
          gndrD ~~
                      eisced2
                                    1.601448e-03 0.0000000000
                                                                        NA
  40
##
          gndrD ~~
                      eisced3
                                    1.828659e-03 0.0000000000
                                                                        NA
##
   41
          gndrD ~~
                     domicil2
                                    4.841410e-03 0.0000000000
                                                                        NA
   42
          gndrD ~~
##
                     domicil3
                                 1 -1.962916e-03 0.0000000000
                                                                        NA
##
   43
          gndrD ~~
                     domicil4
                                    5.687496e-04 0.0000000000
                                                                        NA
          gndrD ~~
##
   44
                          HDI
                                 1 -4.143478e-04 0.0000000000
                                                                        NA
##
   45
        eisced2 ~~
                                    2.117499e-01 0.0000000000
                                                                        NA
                      eisced2
##
  46
        eisced2 ~~
                      eisced3
                                 1 -6.869942e-02 0.0000000000
                                                                        NA
##
   47
        eisced2 ~~
                     domicil2
                                    4.305092e-03 0.0000000000
                                                                        NΑ
##
   48
        eisced2 ~~
                     domicil3
                                 1 -5.878843e-07 0.0000000000
                                                                        NA
##
   49
        eisced2 ~~
                     domicil4
                                    1.699807e-03 0.0000000000
                                                                        NA
##
   50
        eisced2 ~~
                          HDI
                                   -1.290770e-03 0.0000000000
                                                                        NA
##
   51
        eisced3 ~~
                      eisced3
                                    1.747430e-01 0.0000000000
                                                                        NΑ
##
  52
        eisced3 ~~
                     domicil2
                                 1 -4.430363e-03 0.0000000000
                                                                        NA
## 53
        eisced3 ~~
                     domicil3
                                    7.532168e-03 0.0000000000
                                                                        NΑ
                     domicil4
##
  54
        eisced3 ~~
                                    1.751050e-02 0.0000000000
                                                                        NΑ
##
  55
        eisced3 ~~
                          HDI
                                    1.084568e-03 0.0000000000
                                                                        NΑ
   56
       domicil2 ~~
                     domicil2
                                    2.196542e-01 0.0000000000
                                                                        NΑ
       domicil2 ~~
                                 1 -3.463694e-02 0.0000000000
##
   57
                     domicil3
                                                                        NΑ
##
   58
       domicil2 ~~
                     domicil4
                                 1 -5.555368e-02 0.0000000000
                                                                        NA
       domicil2 ~~
##
                          HDI
   59
                                 1 -1.246387e-05 0.0000000000
                                                                        NA
##
   60
       domicil3 ~~
                     domicil3
                                    9.501091e-02 0.0000000000
                                                                        NA
   61
       domicil3 ~~
##
                     domicil4
                                 1 -1.812802e-02 0.0000000000
                                                                        NA
##
   62
       domicil3 ~~
                          HDI
                                 1
                                    9.243921e-04 0.0000000000
                                                                        NA
##
   63
       domicil4 ~~
                     domicil4
                                    1.414393e-01 0.0000000000
                                                                        ΝA
##
   64
       domicil4 ~~
                          HDI
                                 1 -1.005859e-03 0.0000000000
                                                                        NΑ
##
   65
            HDI
                          HDI
                                    6.960898e-04 0.0000000000
                                                                        NA
##
                                   -3.893677e-01 0.1991188025
                                                               -1.9554544
   66
      iphlppl_r ~1
      iplylfr_r ~1
                                    7.955299e-01 0.1705058707
                                                                 4.6657036
## 68 ipeqopt_r ~1
                                    2.503974e+00 0.1778180895 14.0816601
## 69 ipudrst r ~1
                                    2.060699e+00 0.1954040328 10.5458358
```

```
impenv_r ~1
## 70
                               0 2.638010e+00 0.1634639589 16.1381781
##
                                   5.015694e+01 0.0000000000
  71
           agea ~1
                                                                      NΑ
          gndrD ~1
##
  72
                                   5.209922e-01 0.0000000000
                                                                      NA
##
  73
        eisced2 ~1
                                   3.044242e-01 0.0000000000
                                                                      NΔ
                                1
##
   74
        eisced3 ~1
                                1
                                   2.256703e-01 0.0000000000
                                                                      NΑ
##
  75
       domicil2 ~1
                                   3.258001e-01 0.0000000000
                                                                      NΑ
                                1
##
  76
       domicil3 ~1
                                1
                                   1.063136e-01 0.0000000000
                                                                      NΑ
       domicil4 ~1
##
  77
                                1
                                   1.705148e-01 0.0000000000
                                                                      NA
##
  78
            HDI ~1
                                1
                                   9.089486e-01 0.0000000000
                                                                      NA
##
  79
          Benev ~1
                                Λ
                                   0.000000e+00 0.000000000
                                                                      NA
##
  80
          Unive ~1
                                   0.000000e+00 0.0000000000
                                                                      NA
##
  81
      iphlppl_r r2 iphlppl_r
                                0
                                   5.183105e-01
                                                          ΝA
                                                                      NA
      iplylfr_r r2 iplylfr_r
                                0
                                   4.176446e-01
                                                          NA
                                                                      NA
   82
      ipeqopt_r r2 ipeqopt_r
                                  2.938442e-01
                                0
                                                          NA
                                                                      NA
                                0
  84
      ipudrst_r r2 ipudrst_r
                                   3.918527e-01
                                                          NΑ
                                                                      NΑ
##
  85
       impenv_r r2
                    impenv_r
                                0
                                   2.888301e-01
                                                          NA
                                                                      NA
##
  86
          Benev r2
                                0
                                  7.614048e-02
                                                          NA
                                                                      NΑ
                       Benev
##
  87
                       Unive
                                0
                                   5.264520e-02
                                                          NA
                                                                      NA
          Unive r2
##
            pvalue
                           std.lv
                                        std.all
                                                      std.nox
##
  1
                NΑ
                    7.084680e-01
                                  7.199378e-01
                                                 7.199378e-01
##
  2
      0.000000e+00
                    5.818438e-01
                                   6.462543e-01
                                                 6.462543e-01
  3
##
                NΑ
                    5.810447e-01
                                   5.420739e-01
                                                 5.420739e-01
##
  4
      0.000000e+00
                    6.535003e-01
                                   6.259814e-01
                                                 6.259814e-01
## 5
      0.000000e+00
                    5.550453e-01
                                   5.374291e-01
                                                 5.374291e-01
## 6
     0.000000e+00
                    9.122803e-01
                                  9.122803e-01
                                                 9.122803e-01
      6.915492e-06 -2.106251e-03 -3.899206e-02 -2.106251e-03
## 8
      0.000000e+00
                    3.247699e-01
                                  1.622417e-01
                                                 3.247699e-01
## 9
      4.827097e-05
                    8.333063e-02
                                  3.834566e-02
                                                 8.333063e-02
## 10 1.064060e-11
                    1.408824e-01
                                  5.889203e-02
                                                 1.408824e-01
## 11 6.076137e-01
                   1.011188e-02 4.739163e-03
                                                1.011188e-02
## 12 1.040186e-04 -1.103536e-01 -3.401521e-02 -1.103536e-01
  13 1.844040e-05 -1.143184e-01 -4.299336e-02 -1.143184e-01
  14 0.000000e+00
                   7.970266e+00
                                  2.102836e-01
                                                7.970266e+00
## 15 8.881784e-15
                    3.814350e-03
                                  7.061331e-02
                                                 3.814350e-03
  16 0.000000e+00
                    2.329403e-01
                                  1.163674e-01
                                                 2.329403e-01
## 17 1.110223e-15
                    1.782190e-01 8.200976e-02
                                                 1.782190e-01
## 18 0.00000e+00
                   3.889437e-01
                                  1.625873e-01
                                                 3.889437e-01
## 19 1.915559e-02 4.805029e-02 2.251986e-02
                                                4.805029e-02
## 20 5.935875e-05 -1.333022e-01 -4.108886e-02 -1.333022e-01
## 21 4.516080e-01 -2.242011e-02 -8.431850e-03 -2.242011e-02
  22 0.000000e+00
                   3.850067e+00
                                  1.015783e-01
                                                 3.850067e+00
## 23 0.000000e+00
                    4.664635e-01
                                  4.816895e-01
                                                 4.816895e-01
  24 0.000000e+00
                    4.720567e-01
                                  5.823554e-01
                                                 5.823554e-01
                                  7.061558e-01
  25 0.000000e+00
                    8.113396e-01
                                                 7.061558e-01
## 26 0.00000e+00
                    6.627924e-01
                                   6.081473e-01
                                                 6.081473e-01
                    7.585563e-01
                                   7.111699e-01
                                                 7.111699e-01
## 27 0.000000e+00
  28 0.000000e+00
                    9.238595e-01
                                   9.238595e-01
                                                 9.238595e-01
  29
     0.000000e+00
                    9.473548e-01
                                   9.473548e-01
                                                 9.473548e-01
                    3.427142e+02
##
  30
                NΑ
                                  1.000000e+00
                                                 3.427142e+02
##
  31
                    3.514386e-01
                                  3.800115e-02
                                                 3.514386e-01
##
  32
                NA -8.641592e-01 -1.014416e-01 -8.641592e-01
## 33
                NA -5.996190e-01 -7.748354e-02 -5.996190e-01
## 34
                NA -1.137346e-01 -1.310861e-02 -1.137346e-01
                    1.829517e-02 3.206149e-03 1.829517e-02
## 35
```

```
## 36
                NA -3.808200e-01 -5.469765e-02 -3.808200e-01
                NA
                    1.074974e-02 2.200894e-02 1.074974e-02
## 37
                                                 2.495591e-01
##
  38
                    2.495591e-01 1.000000e+00
                    1.601448e-03 6.966499e-03
                                                 1.601448e-03
##
  39
##
  40
                    1.828659e-03 8.756814e-03
                                                 1.828659e-03
## 41
                    4.841410e-03 2.067833e-02
                                                4.841410e-03
## 42
                NA -1.962916e-03 -1.274759e-02 -1.962916e-03
                    5.687496e-04 3.027257e-03 5.687496e-04
## 43
## 44
                NA -4.143478e-04 -3.143734e-02 -4.143478e-04
##
  45
                    2.117499e-01 1.000000e+00 2.117499e-01
## 46
                NA -6.869942e-02 -3.571425e-01 -6.869942e-02
                    4.305092e-03 1.996187e-02 4.305092e-03
##
  47
##
                NA -5.878843e-07 -4.144704e-06 -5.878843e-07
   48
                    1.699807e-03 9.822065e-03 1.699807e-03
##
  49
                NA -1.290770e-03 -1.063175e-01 -1.290770e-03
## 50
## 51
                    1.747430e-01 1.000000e+00
                                                1.747430e-01
## 52
                NA -4.430363e-03 -2.261360e-02 -4.430363e-03
## 53
                    7.532168e-03 5.845657e-02 7.532168e-03
## 54
                    1.751050e-02 1.113816e-01
                                                1.751050e-02
                NΑ
## 55
                    1.084568e-03 9.833867e-02
                                                1.084568e-03
##
  56
                    2.196542e-01 1.000000e+00
                                                2.196542e-01
                NA -3.463694e-02 -2.397635e-01 -3.463694e-02
## 57
                NA -5.555368e-02 -3.151795e-01 -5.555368e-02
## 58
                NA -1.246387e-05 -1.007976e-03 -1.246387e-05
## 59
##
  60
                NΑ
                    9.501091e-02 1.000000e+00 9.501091e-02
  61
                NA -1.812802e-02 -1.563790e-01 -1.812802e-02
                    9.243921e-04 1.136676e-01
##
  62
                NA
                                                9.243921e-04
##
   63
                    1.414393e-01 1.000000e+00
                                                1.414393e-01
                NA -1.005859e-03 -1.013723e-01 -1.005859e-03
##
   64
                    6.960898e-04 1.000000e+00
                                                6.960898e-04
## 65
                NA
  66 5.052946e-02 -3.893677e-01 -3.956715e-01 -3.956715e-01
  67 3.075627e-06
                    7.955299e-01 8.835954e-01
                                                 8.835954e-01
   68 0.000000e+00
                    2.503974e+00
                                  2.336032e+00
                                                 2.336032e+00
  69 0.000000e+00
                    2.060699e+00
                                  1.973923e+00
                                                 1.973923e+00
      0.000000e+00
                    2.638010e+00
                                   2.554285e+00
                                                 2.554285e+00
## 71
                NA
                    5.015694e+01
                                  2.709350e+00
                                                 5.015694e+01
## 72
                    5.209922e-01
                                  1.042905e+00
                                                 5.209922e-01
## 73
                    3.044242e-01
                                   6.615574e-01
                                                 3.044242e-01
                NΑ
                                   5.398517e-01
## 74
                NΑ
                    2.256703e-01
                                                 2.256703e-01
## 75
                NA
                    3.258001e-01
                                   6.951548e-01
                                                 3.258001e-01
  76
                NA
                    1.063136e-01
                                   3.449070e-01
                                                 1.063136e-01
                    1.705148e-01
                                  4.533952e-01
##
  77
                NΑ
                                                 1.705148e-01
##
  78
                NA
                    9.089486e-01
                                   3.445139e+01
                                                 9.089486e-01
                    0.00000e+00
                                  0.000000e+00
                                                 0.000000e+00
## 79
                NA
                                   0.000000e+00
## 80
                    0.000000e+00
                                                 0.000000e+00
                NA
## 81
                NA
                               NA
                                             NA
                                                            NΑ
## 82
                NA
                               NA
                                             NA
                                                            NA
## 83
                NA
                               NA
                                             NA
                                                            NA
## 84
                NA
                               NA
                                             NA
                                                           NA
## 85
                NA
                                             NA
                                                            NA
                               NA
## 86
                NA
                               NA
                                             NA
                                                            NA
## 87
                NA
                               NA
                                             NA
                                                            NA
##
## [1] "ESS round:
```

```
##
           chisq
                       pvalue
                                         cfi
                                                       tli
                                                                   rmsea
                         0.000
##
        1687.692
                                       0.937
                                                     0.888
                                                                   0.047
##
           srmr chisq.scaled pvalue.scaled
                                                cfi.robust
                                                              tli.robust
                       617.425
                                       0.000
                                                     0.939
                                                                   0.891
##
           0.018
##
   rmsea.robust
                  srmr bentler
##
           0.047
                         0.018
##
           lhs op
                                        epc sepc.lv sepc.all sepc.nox
                         rhs
                                  mi
## 92 iplylfr_r ~~ impenv_r 457.933 0.104
                                              0.104
                                                       0.185
                                                                0.185
## 93 ipeqopt_r ~~ ipudrst_r 136.020 0.078
                                              0.078
                                                       0.107
                                                                0.107
## 95 ipudrst_r ~~ impenv_r 111.091 -0.069 -0.069
                                                      -0.102
                                                               -0.102
## 91 iplylfr_r ~~ ipudrst_r 78.173 -0.047
                                             -0.047
                                                      -0.086
                                                               -0.086
          Benev = \sim impenv_r 69.079 - 0.430
## 83
                                            -0.294
                                                      -0.297
                                                               -0.297
## 90 iplylfr_r ~~ ipeqopt_r 65.612 -0.042 -0.042
                                                      -0.068
                                                               -0.068
## 85
          Unive = \sim iplylfr_r 54.503 0.448
                                              0.243
                                                       0.277
                                                                0.277
## 84
          Unive =  iphlppl_r 54.486 - 0.544 - 0.296 
                                                      -0.305
                                                               -0.305
          Benev =~ ipeqopt_r 45.245 0.364
## 81
                                              0.249
                                                       0.237
                                                                0.237
## 89 iphlppl_r ~~ impenv_r 26.304 -0.028 -0.028
                                                      -0.049
                                                               -0.049
```



```
## lavaan 0.6-5 ended normally after 117 iterations
##
##
     Estimator
                                                         ML
##
     Optimization method
                                                     NLMINB
     Number of free parameters
##
                                                         32
##
##
     Number of observations
                                                      26525
##
```

##	Model Test User Model:		
##		Standard	Robust
##	Test Statistic	1687.692	617.425
##	Degrees of freedom	28	28
##	P-value (Chi-square)	0.000	0.000
##	Scaling correction factor		2.733
##	for the Satorra-Bentler correction		
##			
##	Model Test Baseline Model:		
##			
##	Test statistic	26486.419	12297.479
##	Degrees of freedom	50	50
##	P-value	0.000	0.000
##	Scaling correction factor		2.154
##			
	User Model versus Baseline Model:		
##			
##	Comparative Fit Index (CFI)	0.937	
##	Tucker-Lewis Index (TLI)	0.888	0.914
##	Debugge Commenced in Fit Today (CET)		0.020
##	Robust Comparative Fit Index (CFI)		0.939 0.891
##	Robust Tucker-Lewis Index (TLI)		0.891
	Loglikelihood and Information Criteria:		
##	Logitkeiinood and information criteria.		
##	Loglikelihood user model (HO)	-310077.344	-310077 344
##	Loglikelihood unrestricted model (H1)	-309233.498	
##		0002001100	0002001100
##	Akaike (AIC)	620218.689	620218.689
##	Bayesian (BIC)	620480.636	
##	Sample-size adjusted Bayesian (BIC)	620378.941	620378.941
##			
##	Root Mean Square Error of Approximation:		
##			
##	RMSEA	0.047	0.028
##	90 Percent confidence interval - lower	0.045	0.027
##	90 Percent confidence interval - upper	0.049	0.029
##	P-value RMSEA <= 0.05	0.990	1.000
##			
##	Robust RMSEA		0.047
##	90 Percent confidence interval - lower		0.043
##	90 Percent confidence interval - upper		0.050
##	Chandandia d Dark Mara Carra Darida d		
	Standardized Root Mean Square Residual:		
##	SRMR	0.018	0.018
##	Saria	0.016	0.016
	Parameter Estimates:		
##	rarameter Estimates.		
##	Information	Evne	ected
##		Struct	
##	Standard errors	Robust.cluster	
##			-
##	Latent Variables:		

##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev =~						
##	iphlppl_r	1.000				0.684	0.706
##	iplylfr_r	0.823	0.013	61.157	0.000	0.563	0.640
##	Unive =~						
##	ipeqopt_r	1.000				0.544	0.517
##	ipudrst_r	1.170	0.023	51.812	0.000	0.636	0.617
##	impenv_r	0.978	0.021	46.979	0.000	0.532	0.538
##	· -						
##	Regressions:						
##	O .	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev ~						
##	agea	-0.001	0.000	-4.460	0.000	-0.002	-0.037
##	gndrD	0.221	0.011	19.562	0.000	0.323	0.161
##	eisced2	0.034	0.013	2.540	0.011	0.049	0.023
##	eisced3	0.056	0.014	4.081	0.000	0.082	0.035
##	domicil2	-0.000	0.013	-0.014	0.988	-0.000	-0.000
##	domicil3	0.047	0.019	2.499	0.012	0.069	0.022
##	domicil4	-0.015	0.016	-0.910	0.363	-0.022	-0.008
##	HDI	7.045	0.225	31.328	0.000	10.305	0.255
##	Unive ~						
##	agea	0.000	0.000	1.482	0.138	0.001	0.013
##	${ t gndrD}$	0.135	0.009	14.380	0.000	0.249	0.124
##	eisced2	0.083	0.011	7.402	0.000	0.152	0.071
##	eisced3	0.185	0.012	15.812	0.000	0.341	0.145
##	domicil2	0.010	0.011	0.870	0.384	0.018	0.008
##	domicil3	0.068	0.015	4.438	0.000	0.125	0.040
##	domicil4	0.032	0.014	2.323	0.020	0.058	0.022
##	HDI	3.417	0.188	18.145	0.000	6.282	0.155
##							
##	Covariances:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.Benev ~~						
##	.Unive	0.318	0.007	43.641	0.000	0.928	0.928
##							
##	Intercepts:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	$.\mathtt{iphlppl_r}$	-1.656	0.208	-7.963	0.000	-1.656	-1.710
##	.iplylfr_r	-0.246	0.174	-1.415	0.157	-0.246	-0.280
##	.ipeqopt_r	1.532	0.175	8.770	0.000	1.532	1.456
##	.ipudrst_r	0.812	0.201	4.045	0.000	0.812	0.788
##	$.impenv_r$	1.787	0.169	10.588	0.000	1.787	1.808
##	.Benev	0.000				0.000	0.000
##	.Unive	0.000				0.000	0.000
##							
##	Variances:	_			- 4 1 15		
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.iphlppl_r	0.470	0.010	49.139	0.000	0.470	0.502
##	.iplylfr_r	0.458	0.008	54.376	0.000	0.458	0.591
##	.ipeqopt_r	0.812	0.012	66.156	0.000	0.812	0.733
##	.ipudrst_r	0.658	0.011	58.313	0.000	0.658	0.619
##	.impenv_r	0.694	0.011	65.694	0.000	0.694	0.711
##	.Benev	0.424	0.010	40.664	0.000	0.907	0.907
##	.Unive	0.278	0.009	30.071	0.000	0.938	0.938

```
##
## R-Square:
                       Estimate
##
##
                           0.498
       iphlppl_r
##
       iplylfr_r
                           0.409
##
       ipeqopt_r
                           0.267
##
       ipudrst_r
                           0.381
##
                           0.289
       impenv_r
##
       Benev
                           0.093
##
       Unive
                           0.062
##
##
   $FIT
##
                                                              fmin
                              npar
                            32.000
                                                             0.032
##
##
                             chisq
                                                                 df
##
                          1687.692
                                                            28.000
##
                                                      chisq.scaled
                            pvalue
                             0.000
##
                                                           617.425
##
                         df.scaled
                                                     pvalue.scaled
##
                            28.000
                                                             0.000
             chisq.scaling.factor
##
                                                    baseline.chisq
##
                             2.733
                                                         26486.419
                      baseline.df
##
                                                   baseline.pvalue
##
                            50.000
                                                             0.000
##
           baseline.chisq.scaled
                                               baseline.df.scaled
##
                         12297.479
##
          baseline.pvalue.scaled baseline.chisq.scaling.factor
                             0.000
                                                             2.154
##
                               cfi
                                                                tli
##
                             0.937
                                                             0.888
##
                       cfi.scaled
                                                        tli.scaled
##
                             0.952
                                                             0.914
##
                       cfi.robust
                                                        tli.robust
##
                             0.939
                                                             0.891
                                                unrestricted.logl
##
                              logl
                      -310077.344
                                                       -309233.498
##
##
                               aic
                                                               bic
##
                       620218.689
                                                        620480.636
##
                            ntotal
                                                              bic2
##
                         26525.000
                                                        620378.941
##
                             rmsea
                                                    rmsea.ci.lower
##
                             0.047
                                                             0.045
                   rmsea.ci.upper
##
                                                      rmsea.pvalue
##
                             0.049
                                                             0.990
##
                     rmsea.scaled
                                            rmsea.ci.lower.scaled
##
                             0.028
                                                             0.027
##
           rmsea.ci.upper.scaled
                                              rmsea.pvalue.scaled
##
                             0.029
                                                              1.000
##
                     rmsea.robust
                                            rmsea.ci.lower.robust
##
                             0.047
                                                             0.043
##
           rmsea.ci.upper.robust
                                              rmsea.pvalue.robust
##
                             0.050
##
                              srmr
                             0.018
##
```

```
##
   $PE
##
##
            lhs op
                          rhs exo
                                              est
                                                             se
                                                                          7
                                    1.000000e+00 0.0000000000
                                                                         NA
##
  1
          Benev =~ iphlppl_r
                                 0
##
   2
          Benev =~ iplylfr_r
                                 0
                                    8.233074e-01 0.0134621176 61.15734979
  3
##
          Unive =~ ipeqopt r
                                    1.000000e+00 0.0000000000
## 4
          Unive =~ ipudrst r
                                    1.169519e+00 0.0225722565 51.81225131
## 5
          Unive =~
                     impenv_r
                                 0
                                    9.776107e-01 0.0208095030 46.97904956
##
   6
          Benev ~~
                        Unive
                                 0
                                    3.183019e-01 0.0072936158 43.64117138
## 7
          Benev
                         agea
                                  -1.357156e-03 0.0003043210 -4.45961967
##
  8
                        gndrD
                                    2.208762e-01 0.0112908957 19.56232700
          Benev
## 9
          Benev
                      eisced2
                                    3.364303e-02 0.0132451307
                                                                 2.54003011
## 10
                      eisced3
                                    5.638933e-02 0.0138168237
                                                                 4.08120800
          Benev
                     domicil2
## 11
          Benev
                                  -1.920085e-04 0.0132853457 -0.01445265
## 12
                                    4.717010e-02 0.0188725553
          Benev
                     domicil3
                                                                 2.49940196
##
  13
                     domicil4
                                   -1.475742e-02 0.0162195960 -0.90985145
          Benev
##
   14
                          HDI
                                 0
                                    7.044533e+00 0.2248638546 31.32799031
          Benev
##
   15
                                    3.727566e-04 0.0002515222
                                                                 1.48200297
          Unive
                         agea
  16
                                    1.354746e-01 0.0094212292 14.37971363
##
                        gndrD
          Unive
##
   17
          Unive
                      eisced2
                                    8.255038e-02 0.0111527370
                                                                 7.40180462
##
  18
          Unive
                      eisced3
                                    1.852556e-01 0.0117164044 15.81164516
##
  19
                                    9.685379e-03 0.0111278955
          Unive
                     domicil2
                                                                 0.87036937
## 20
                                                                 4.43816964
                     domicil3
                                    6.787348e-02 0.0152931233
          Unive
##
  21
          Unive
                     domicil4
                                    3.166478e-02 0.0136293340
                                                                 2.32328133
##
  22
          Unive
                          HDI
                                    3.417207e+00 0.1883323571 18.14455429
   23
      iphlppl_r ~~ iphlppl_r
                                    4.702073e-01 0.0095690167 49.13851952
                                    4.577693e-01 0.0084186265 54.37577040
   24
      iplylfr_r ~~ iplylfr_r
                                 0
##
   25
      ipeqopt_r ~~ ipeqopt_r
                                 0
                                    8.121905e-01 0.0122769691 66.15561603
   26
      ipudrst_r ~~
                    ipudrst_r
                                    6.584578e-01 0.0112917171 58.31334539
##
   27
       impenv_r ~~
                                    6.942201e-01 0.0105675210 65.69375202
                     impenv_r
##
  28
          Benev ~~
                        Benev
                                 0
                                    4.238901e-01 0.0104241618 40.66419119
##
   29
          Unive ~~
                        Unive
                                    2.775911e-01 0.0092312187 30.07090530
   30
##
                                    3.512025e+02 0.0000000000
                                                                         NA
           agea ~~
                         agea
   31
                                                                         NA
##
                                    3.753336e-01 0.0000000000
           agea ~~
                        gndrD
##
   32
                      eisced2
                                   -7.056186e-01 0.0000000000
                                                                         NA
           agea ~~
##
   33
                                                                         NA
           agea ~~
                      eisced3
                                 1 -6.766041e-01 0.0000000000
##
   34
           agea ~~
                     domicil2
                                 1 -2.465282e-02 0.00000000000
                                                                         NA
##
  35
                                    1.011899e-01 0.0000000000
                                                                         NA
           agea ~~
                     domicil3
##
   36
                                 1 -3.280675e-01 0.0000000000
                                                                         NA
           agea ~~
                     domicil4
  37
                                 1 -5.391844e-03 0.0000000000
                                                                         NA
##
                          HDI
           agea ~~
   38
##
          gndrD ~~
                        gndrD
                                    2.488967e-01 0.0000000000
                                                                         NA
   39
                                    2.946780e-03 0.0000000000
                                                                         NA
##
          gndrD ~~
                      eisced2
##
   40
          gndrD ~~
                      eisced3
                                    1.490203e-03 0.0000000000
                                                                         NA
##
   41
          gndrD ~~
                                    6.028328e-03 0.0000000000
                                                                         NA
                     domicil2
## 42
          gndrD ~~
                     domicil3
                                    3.920998e-04 0.0000000000
                                                                         NA
## 43
          gndrD ~~
                     domicil4
                                    1.157523e-03 0.0000000000
                                                                         ΝA
##
   44
          gndrD ~~
                          HDI
                                 1 -5.210685e-04 0.0000000000
                                                                         NA
##
   45
        eisced2 ~~
                      eisced2
                                    2.161873e-01 0.0000000000
                                                                         NA
##
   46
        eisced2 ~~
                      eisced3
                                 1 -7.523850e-02 0.0000000000
                                                                         NA
##
   47
        eisced2 ~~
                     domicil2
                                    6.072798e-03 0.0000000000
                                                                         NA
##
   48
        eisced2 ~~
                     domicil3
                                 1 -1.758815e-03 0.0000000000
                                                                         NΑ
##
  49
        eisced2 ~~
                     domicil4
                                    3.915938e-03 0.0000000000
                                                                         NA
## 50
        eisced2 ~~
                          HDI
                                 1 -1.109088e-03 0.0000000000
                                                                         NA
## 51
        eisced3 ~~
                      eisced3
                                   1.813597e-01 0.0000000000
                                                                         NA
```

```
## 52
        eisced3 ~~
                     domicil2
                                1 -3.350745e-03 0.0000000000
                                                                         NA
##
  53
                                   9.776459e-03 0.0000000000
                                                                         NΑ
        eisced3 ~~
                     domicil3
                                1
##
   54
        eisced3 ~~
                     domicil4
                                    1.321128e-02 0.0000000000
                                                                         NA
        eisced3 ~~
                                   9.247940e-04 0.0000000000
##
                          HDI
                                                                         NA
   55
##
   56
       domicil2 ~~
                     domicil2
                                    2.168749e-01 0.0000000000
                                                                         NA
##
       domicil2 ~~
                     domicil3
                                1 -3.637234e-02 0.0000000000
                                                                         NA
   57
##
   58
       domicil2 ~~
                     domicil4
                                1 -5.640179e-02 0.0000000000
                                                                         NA
## 59
       domicil2 ~~
                          HDT
                                 1 -2.078426e-04 0.0000000000
                                                                         NA
##
   60
       domicil3 ~~
                     domicil3
                                   1.012966e-01 0.0000000000
                                                                         NA
##
   61
       domicil3 ~~
                     domicil4
                                 1 -2.028695e-02 0.0000000000
                                                                         NA
   62
       domicil3 ~~
                          HDI
                                   8.963800e-04 0.0000000000
                                                                         NA
##
   63
       domicil4 ~~
                     domicil4
                                   1.459069e-01 0.0000000000
                                                                         NA
##
   64
       domicil4
                          HDI
                                1 -1.068151e-03 0.0000000000
                                                                         NA
                                   6.101580e-04 0.0000000000
##
   65
            HDI ~~
                          HDI
                                                                         NA
   66 iphlppl_r ~1
                                 0 -1.655548e+00 0.2079028233 -7.96308595
                                0 -2.463481e-01 0.1740897325 -1.41506395
   67
      iplylfr_r ~1
                                    1.532450e+00 0.1747365475
                                                                8.77006240
##
      ipeqopt_r ~1
   68
                                    8.121212e-01 0.2007840175
   69
      ipudrst r ~1
                                                                4.04475032
       impenv_r ~1
##
   70
                                 0
                                    1.787010e+00 0.1687821547 10.58767131
##
   71
           agea ~1
                                    5.093217e+01 0.0000000000
##
  72
          gndrD ~1
                                 1
                                    5.332113e-01 0.0000000000
                                                                         NΔ
  73
                                    3.161185e-01 0.0000000000
##
        eisced2 ~1
                                                                         NA
  74
                                    2.380076e-01 0.0000000000
##
        eisced3 ~1
                                                                         NA
                                 1
##
   75
       domicil2 ~1
                                    3.179977e-01 0.0000000000
                                                                         NA
                                    1.143794e-01 0.0000000000
##
  76
       domicil3 ~1
                                1
                                                                         NA
##
   77
       domicil4 ~1
                                1
                                    1.773657e-01 0.0000000000
                                                                         NA
  78
            HDI ~1
                                    9.125401e-01 0.0000000000
                                                                         NA
##
                                 1
##
   79
          Benev ~1
                                    0.000000e+00 0.0000000000
                                                                         NA
                                   0.000000e+00 0.0000000000
                                                                         NA
##
   80
          Unive ~1
   81 iphlppl_r r2 iphlppl_r
                                0
                                   4.984538e-01
                                                                         NA
                                                            NA
      iplylfr_r r2 iplylfr_r
                                0
                                    4.089693e-01
                                                            NA
                                                                         NA
      ipeqopt_r r2 ipeqopt_r
                                0
                                   2.670253e-01
                                                            NΑ
                                                                         NA
   83
                                   3.806601e-01
                                                            NA
                                                                         NA
      ipudrst_r r2 ipudrst_r
                                                                         NA
##
                                0
                                   2.894392e-01
                                                            NA
   85
       impenv_r r2
                     impenv_r
##
   86
          Benev r2
                                 0
                                    9.291090e-02
                                                                         NA
                        Benev
                                                            NA
##
   87
                        Unive
                                    6.182436e-02
                                                                         NA
          Unive r2
                                0
                                                            NA
##
            pvalue
                           std.lv
                                         std.all
                                                        std.nox
##
                     6.835994e-01
                                   0.7060126007
                                                  7.060126e-01
  1
                 NA
                     5.628125e-01
##
   2
      0.000000e+00
                                    0.6395071096
                                                  6.395071e-01
##
  3
                 NA
                     5.439521e-01
                                    0.5167449438
                                                  5.167449e-01
      0.000000e+00
                     6.361626e-01
                                    0.6169765928
                                                  6.169766e-01
      0.000000e+00
##
  5
                     5.317734e-01
                                   0.5379955254
                                                  5.379955e-01
   6
      0.000000e+00
                    9.279186e-01
                                   0.9279185740
                                                  9.279186e-01
      8.210522e-06 -1.985309e-03 -0.0372054805
                                                 -1.985309e-03
      0.000000e+00
                    3.231077e-01
                                   0.1611969360
                                                  3.231077e-01
      1.108429e-02
                     4.921454e-02
## 9
                                    0.0228827667
                                                   4.921454e-02
                                   0.0351289935
  10 4.480224e-05
                    8.248886e-02
                                                  8.248886e-02
   11 9.884689e-01 -2.808786e-04 -0.0001308047 -2.808786e-04
   12 1.244031e-02 6.900255e-02
                                   0.0219615320
                                                  6.900255e-02
   13 3.629009e-01 -2.158782e-02 -0.0082460648
                                                 -2.158782e-02
   14 0.000000e+00
                    1.030506e+01
                                   0.2545491711
                                                  1.030506e+01
## 15 1.383395e-01
                    6.852746e-04
                                   0.0128423190
                                                  6.852746e-04
## 16 0.000000e+00 2.490561e-01
                                   0.1242529326
                                                  2.490561e-01
## 17 1.343370e-13 1.517604e-01 0.0705624204
                                                  1.517604e-01
```

```
## 18 0.000000e+00 3.405734e-01 0.1450377812 3.405734e-01
                                              1.780557e-02
## 19 3.840986e-01 1.780557e-02 0.0082920238
## 20 9.072710e-06
                  1.247784e-01 0.0397133825
                                               1.247784e-01
## 21 2.016404e-02 5.821243e-02 0.0222358445
                                               5.821243e-02
## 22 0.000000e+00
                  6.282183e+00
                                0.1551785603
                                               6.282183e+00
## 23 0.000000e+00
                  4.702073e-01 0.5015462077
                                               5.015462e-01
## 24 0.00000e+00
                   4.577693e-01
                                0.5910306567
                                               5.910307e-01
## 25 0.000000e+00
                   8.121905e-01
                                 0.7329746631
                                               7.329747e-01
## 26 0.000000e+00
                   6.584578e-01
                                 0.6193398840
                                               6.193399e-01
## 27 0.00000e+00
                   6.942201e-01
                                0.7105608147
                                               7.105608e-01
## 28 0.00000e+00
                   9.070891e-01
                                 0.9070890997
                                               9.070891e-01
## 29
     0.000000e+00
                   9.381756e-01
                                0.9381756410
                                               9.381756e-01
##
  30
                   3.512025e+02 1.0000000000
               NA
                                               3.512025e+02
               NA 3.753336e-01 0.0401447846
                                              3.753336e-01
## 31
## 32
               NA -7.056186e-01 -0.0809796973 -7.056186e-01
## 33
               NA -6.766041e-01 -0.0847784376 -6.766041e-01
##
               NA -2.465282e-02 -0.0028247707 -2.465282e-02
  34
  35
                   1.011899e-01 0.0169652681 1.011899e-01
##
##
  36
               NA -3.280675e-01 -0.0458296442 -3.280675e-01
##
  37
               NA -5.391844e-03 -0.0116476235 -5.391844e-03
## 38
               NΑ
                   2.488967e-01 1.0000000000
                                              2.488967e-01
## 39
                   2.946780e-03 0.0127034896
                                              2.946780e-03
                   1.490203e-03 0.0070139956
                                               1.490203e-03
## 40
               NA
## 41
               NA
                   6.028328e-03 0.0259467342
                                               6.028328e-03
## 42
               NΑ
                   3.920998e-04 0.0024693894
                                              3.920998e-04
  43
                   1.157523e-03 0.0060741049
                                              1.157523e-03
               NA -5.210685e-04 -0.0422828331 -5.210685e-04
##
  44
## 45
                   2.161873e-01 1.0000000000
                                              2.161873e-01
## 46
               NA -7.523850e-02 -0.3799746527 -7.523850e-02
## 47
               NA 6.072798e-03 0.0280458859 6.072798e-03
## 48
               NA -1.758815e-03 -0.0118852281 -1.758815e-03
## 49
                   3.915938e-03 0.0220486914 3.915938e-03
##
  50
               NA -1.109088e-03 -0.0965672158 -1.109088e-03
                  1.813597e-01 1.0000000000 1.813597e-01
## 51
               NA -3.350745e-03 -0.0168953169 -3.350745e-03
## 52
## 53
                  9.776459e-03 0.0721296240 9.776459e-03
## 54
                   1.321128e-02 0.0812150351
                                              1.321128e-02
                   9.247940e-04 0.0879130603 9.247940e-04
## 55
## 56
                   2.168749e-01 1.000000000 2.168749e-01
               NA -3.637234e-02 -0.2453969333 -3.637234e-02
## 57
  58
               NA -5.640179e-02 -0.3170665299 -5.640179e-02
               NA -2.078426e-04 -0.0180679497 -2.078426e-04
##
  59
##
  60
               NΑ
                   1.012966e-01 1.000000000 1.012966e-01
               NA -2.028695e-02 -0.1668712195 -2.028695e-02
## 61
## 62
               NA 8.963800e-04 0.1140180231 8.963800e-04
                   1.459069e-01 1.0000000000
## 63
                                              1.459069e-01
## 64
               NA -1.068151e-03 -0.1132071138 -1.068151e-03
## 65
                  6.101580e-04 1.000000000 6.101580e-04
## 66 1.776357e-15 -1.655548e+00 -1.7098285948 -1.709829e+00
## 67 1.570497e-01 -2.463481e-01 -0.2799180452 -2.799180e-01
## 68 0.000000e+00 1.532450e+00 1.4558008677
                                              1.455801e+00
## 69 5.237892e-05 8.121212e-01 0.7876284764 7.876285e-01
## 70 0.000000e+00 1.787010e+00 1.8079191724 1.807919e+00
## 71
               NA 5.093217e+01 2.7177744054 5.093217e+01
```

```
## 72
               NA 5.332113e-01 1.0687836358 5.332113e-01
               NA 3.161185e-01 0.6798840274 3.161185e-01
## 73
## 74
               NA 2.380076e-01 0.5588823466 2.380076e-01
               NA 3.179977e-01 0.6828406186 3.179977e-01
## 75
## 76
               NA 1.143794e-01 0.3593770897 1.143794e-01
               NA 1.773657e-01 0.4643352516 1.773657e-01
## 77
               NA 9.125401e-01 36.9428816993 9.125401e-01
## 78
               NA 0.000000e+00 0.000000000 0.000000e+00
## 79
## 80
               NA 0.000000e+00 0.000000000 0.000000e+00
## 81
               NA
                             NA
                                           NA
                                                         NA
## 82
               NA
                             NA
                                           NA
                                                        NA
                             NA
                                           NA
                                                        NA
## 83
               NA
## 84
               NA
                             NA
                                           NA
                                                        NA
## 85
               NA
                             NA
                                           NA
                                                        NA
## 86
                             NA
                                                        NA
               NΑ
                                           NΑ
## 87
               NA
                             NA
                                           NA
                                                         NA
```

Multilevel MIMIC

```
Mmimicmodel21 <-'
level: 1
Benev_w =~ iphlppl_r + iplylfr_r
Unive_w =~ ipeqopt_r + ipudrst_r + impenv_r
Benev_w ~ agea + gndrD + eisced2 + eisced3 + domicil2 + domicil3 + domicil4
Unive_w ~ agea + gndrD + eisced2 + eisced3 + domicil2 + domicil3 + domicil4
level: 2
Benev_b =~ iphlppl_r + iplylfr_r
Unive_b =~ ipeqopt_r + ipudrst_r + impenv_r
Benev_b ~ HDI
Unive b ~ HDI
for (r in c(8,9)) {
  ds_filtrada2 <- ds_filtradaAll %>% filter(essround == r)
  survey.design2 <- svydesign(ids=~idno, prob=~dweight, data=ds_filtrada2)</pre>
  lavaan.Mmimicfit <- lavaan(Mmimicmodel21, data=ds_filtrada2,sampling.weights = "dweight",</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
                                                 #covariances of exogeneous latent variables are include
                          auto.cov.lv.x=TRUE,
                          estimator="MLM",
                          cluster = "cntry")
  survey.Mmimicfit <- lavaan.Mmimicfit</pre>
  assign(paste0("survey.Mmimicfit",r),survey.Mmimicfit)
  print(paste("ESS round: ", r))
  print(fitMeasures(survey.Mmimicfit, c("chisq","pvalue","cfi", "tli","rmsea", "srmr",
  print(modindices(survey.Mmimicfit,sort=T)[1:10,])
```

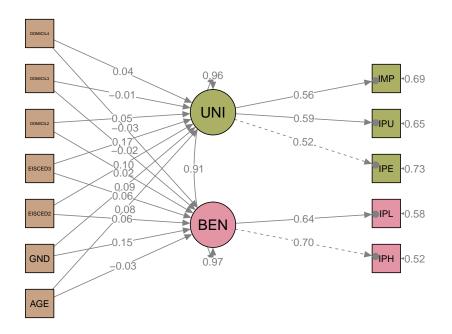
invisible(semPaths(paste0("C:\\Users\\pamel\\Documents\\ESS\\MPLUS\\mmimic",r,".out"), "model", "std", "

groups = "latent", pastel = TRUE, exoCov = FALSE, optimizeLatRes = TRUE, rotation

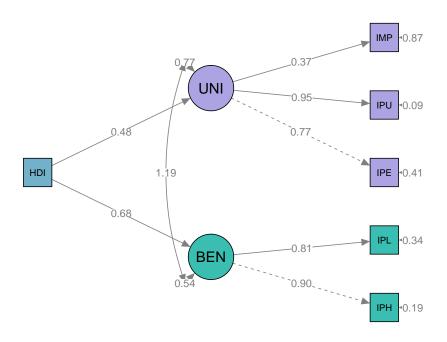
intercepts = FALSE, layout = "tree2", ask =FALSE,

```
print(summary(survey.Mmimicfit, standardized=T, rsquare=T, fit.measures=T))
}
## [1] "ESS round: 8"
          chisq
                       pvalue
                                        cfi
                                                      tli
                                                                  rmsea
##
       10467.254
                        0.000
                                                                  0.106
                                      0.840
                                                    0.718
           srmr chisq.scaled pvalue.scaled
##
                                               cfi.robust
                                                             tli.robust
                     3616.323
##
          0.384
                                      0.000
                                                    0.841
                                                                  0.719
## rmsea.robust
##
          0.106
##
            lhs op
                         rhs block group level
                                                          epc sepc.lv
                                                     mi
## 109
        Unive_w ~
                     Benev_w
                                      1
                                             1 7023.858 0.605
                                                                0.793
## 107
        Benev_w ~~
                     Unive_w
                                             1 7023.854 0.350
                                                                0.798
                                 1
                                       1
        Benev_w ~
## 108
                                             1 7023.852 1.052
                                                                0.803
                     {\tt Unive\_w}
                                 1
                                       1
## 95
        Unive_w =~ iphlppl_r
                                             1 2501.579 0.576
                                                               0.340
                                 1
                                       1
## 93
        Benev_w =~ ipudrst_r
                                 1
                                       1
                                             1 1694.177 0.353
                                                                0.273
        Unive_w =~ iplylfr_r
                                 1
                                             1 1648.304 0.427
                                                                0.252
## 96
                                       1
## 94
        Benev_w =~ impenv_r
                                 1
                                       1
                                             1 1310.158 0.316
                                                                0.244
## 103 iplylfr_r ~~ impenv_r
                                             1 812.959 0.125
                                                                0.125
                                 1
                                       1
## 99 iphlppl_r ~~ ipudrst_r
                                 1
                                       1
                                            1 764.630 0.129
                                                                0.129
                                            1 732.855 0.239
## 92
        Benev_w =~ ipeqopt_r
                                 1
                                      1
                                                                0.185
##
      sepc.all sepc.nox
## 109
         0.793
                  0.793
## 107
         0.798
                  0.798
         0.803
## 108
                  0.803
## 95
         0.361
                 0.361
## 93
         0.270
                 0.270
## 96
         0.292
                  0.292
## 94
         0.242
                  0.242
## 103
         0.198
                 0.198
## 99
         0.298
                 0.298
## 92
         0.179
                  0.179
## Reading model: C:\Users\pamel\Documents\ESS\MPLUS\mmimic8.out
```

Within



Between



## ##	lavaan 0.6-5 ended normally after 399 item	rations	
##	Estimator	MT.	
##	Optimization method	NLMINB	
##	Number of free parameters	41	
##	1		
##		Used	Total
##	Number of observations	27310	28080
##	Number of clusters [cntry]	14	
##	Sampling weights variable	dweight	
##		J	
##	Model Test User Model:		
##		Standard	Robust
##	Test Statistic	10467.254	3616.323
##	Degrees of freedom	34	34
##	P-value (Chi-square)	0.000	0.000
##	Scaling correction factor		2.894
##	for the Yuan-Bentler correction (Mplus	variant)	
##			
##	Model Test Baseline Model:		
##			
##	Test statistic	65249.164	20489.016
##	Degrees of freedom	60	60
##	P-value	0.000	0.000
##	Scaling correction factor		3.185
##			

```
## User Model versus Baseline Model:
##
                                                     0.840
##
     Comparative Fit Index (CFI)
                                                                 0.825
     Tucker-Lewis Index (TLI)
                                                     0.718
                                                                 0.691
##
##
##
     Robust Comparative Fit Index (CFI)
                                                                 0.841
##
     Robust Tucker-Lewis Index (TLI)
                                                                 0.719
##
## Loglikelihood and Information Criteria:
##
##
     Loglikelihood user model (HO)
                                              -384030.994 -384030.994
##
     Scaling correction factor
                                                                 8.012
##
         for the MLR correction
     Loglikelihood unrestricted model (H1)
                                               -378797.367 -378797.367
##
##
     Scaling correction factor
                                                                 5.692
##
         for the MLR correction
##
     Akaike (AIC)
##
                                                768143.987 768143.987
##
     Bayesian (BIC)
                                                768480.803 768480.803
##
     Sample-size adjusted Bayesian (BIC)
                                                768350.506 768350.506
##
## Root Mean Square Error of Approximation:
##
     RMSEA
                                                     0.106
                                                                 0.062
##
##
     90 Percent confidence interval - lower
                                                     0.104
                                                                 0.061
     90 Percent confidence interval - upper
                                                     0.108
                                                                 0.063
##
     P-value RMSEA <= 0.05
                                                     0.000
                                                                 0.000
##
     Robust RMSEA
##
                                                                 0.106
     90 Percent confidence interval - lower
                                                                 0.103
##
     90 Percent confidence interval - upper
                                                                 0.109
##
## Standardized Root Mean Square Residual (corr metric):
##
##
     SRMR (within covariance matrix)
                                                     0.092
                                                                 0.092
##
     SRMR (between covariance matrix)
                                                     0.292
                                                                 0.292
##
## Parameter Estimates:
##
                                                       Observed
##
     Information
##
     Observed information based on
                                                        Hessian
##
     Standard errors
                                             Robust.huber.white
##
##
## Level 1 [within]:
##
## Latent Variables:
##
                      Estimate Std.Err z-value P(>|z|)
                                                             Std.lv Std.all
     Benev_w =~
##
                                                              0.773
                                                                        0.821
##
       iphlppl_r
                         1.000
##
                         0.604
                                  0.081
                                            7.407
                                                     0.000
                                                                        0.541
       iplylfr_r
                                                              0.467
##
     Unive w =~
##
       ipeqopt_r
                         1.000
                                                              0.590
                                                                        0.570
                                                              0.609
##
       ipudrst r
                         1.033
                                  0.041
                                           24.965
                                                     0.000
                                                                        0.603
```

```
0.866
                                    0.039
                                                       0.000
                                                                 0.511
                                                                          0.505
##
       impenv_r
                                            22.275
##
## Regressions:
##
                       Estimate Std.Err z-value P(>|z|)
                                                                Std.lv Std.all
##
     Benev_w ~
##
                         -0.001
                                    0.001
                                            -0.952
                                                       0.341
                                                                -0.001
                                                                         -0.017
       agea
##
       gndrD
                          0.250
                                    0.019
                                            13.419
                                                       0.000
                                                                 0.323
                                                                          0.161
                                    0.025
##
                          0.085
                                             3.426
                                                       0.001
                                                                 0.110
                                                                          0.051
       eisced2
##
       eisced3
                          0.085
                                    0.039
                                             2.179
                                                       0.029
                                                                 0.111
                                                                          0.047
##
                          0.021
                                    0.017
                                             1.280
                                                       0.200
                                                                 0.028
                                                                          0.013
       domicil2
##
       domicil3
                         -0.067
                                    0.042
                                            -1.599
                                                       0.110
                                                                -0.087
                                                                         -0.027
##
                                    0.033
                                                       0.126
       domicil4
                         -0.051
                                            -1.531
                                                                -0.066
                                                                         -0.025
##
     Unive_w ~
##
                          0.002
                                    0.001
                                             2.835
                                                       0.005
                                                                 0.004
                                                                          0.066
       agea
##
                          0.127
                                    0.017
                                             7.397
                                                       0.000
                                                                 0.215
                                                                          0.108
       gndrD
##
       eisced2
                          0.128
                                    0.022
                                             5.797
                                                       0.000
                                                                 0.216
                                                                           0.100
##
       eisced3
                          0.232
                                    0.027
                                             8.738
                                                       0.000
                                                                 0.394
                                                                          0.166
                                    0.016
##
       domicil2
                          0.059
                                             3.758
                                                       0.000
                                                                 0.100
                                                                           0.047
##
       domicil3
                         -0.038
                                    0.043
                                            -0.882
                                                       0.378
                                                                -0.064
                                                                         -0.020
##
       domicil4
                          0.056
                                    0.034
                                              1.624
                                                       0.104
                                                                 0.094
                                                                          0.035
##
## Intercepts:
##
                       Estimate Std.Err z-value P(>|z|)
                                                                Std.lv
                                                                        Std.all
      .iphlppl_r
##
                          0.000
                                                                 0.000
                                                                          0.000
##
                          0.000
                                                                 0.000
                                                                          0.000
      .iplylfr_r
##
      .ipeqopt_r
                          0.000
                                                                 0.000
                                                                           0.000
##
      .ipudrst_r
                          0.000
                                                                 0.000
                                                                           0.000
##
                          0.000
                                                                 0.000
                                                                           0.000
      .impenv_r
##
                          0.000
      .Benev_w
                                                                 0.000
                                                                           0.000
##
                          0.000
                                                                 0.000
                                                                           0.000
      .Unive_w
##
## Variances:
##
                                  Std.Err z-value P(>|z|)
                                                                Std.lv
                                                                        Std.all
                       Estimate
##
                          0.288
                                    0.075
                                             3.816
                                                       0.000
                                                                 0.288
                                                                           0.325
      .iphlppl_r
                                    0.043
##
      .iplylfr_r
                          0.526
                                            12.281
                                                       0.000
                                                                 0.526
                                                                           0.707
##
                          0.724
                                    0.044
                                            16.344
                                                       0.000
                                                                 0.724
                                                                          0.675
      .ipeqopt_r
##
      .ipudrst r
                          0.650
                                    0.022
                                            29.301
                                                       0.000
                                                                 0.650
                                                                           0.636
##
      .impenv_r
                          0.761
                                    0.057
                                            13.414
                                                       0.000
                                                                 0.761
                                                                           0.745
                                    0.096
##
      .Benev w
                          0.579
                                             6.024
                                                       0.000
                                                                 0.969
                                                                           0.969
##
                                    0.031
                                                       0.000
                                                                 0.956
                                                                           0.956
      .Unive_w
                          0.333
                                            10.635
##
## R-Square:
##
                       Estimate
##
                          0.675
       iphlppl_r
##
                          0.293
       iplylfr_r
##
                          0.325
       ipeqopt_r
##
       ipudrst_r
                          0.364
##
                          0.255
       impenv_r
##
       Benev_w
                          0.031
##
       Unive_w
                          0.044
##
##
## Level 2 [cntry]:
##
```

##	Latent Variables:						
##	Laveno variables.	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev_b =~		204122		- (* 121)	204121	2041411
##	iphlppl_r	1.000				0.213	0.886
##	iplylfr_r	0.801	0.241	3.319	0.001	0.171	0.835
##	Unive_b =~						
##	ipeqopt_r	1.000				0.093	0.409
##	ipudrst_r	3.320	2.185	1.519	0.129	0.310	1.484
##	impenv_r	0.711	0.200	3.561	0.000	0.066	0.344
##	_						
##	Regressions:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev_b ~						
##	HDI	5.234	1.799	2.909	0.004	24.552	0.669
##	Unive_b ~						
##	HDI	1.293	1.200	1.078	0.281	13.844	0.377
##							
##	Intercepts:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	$.\mathtt{iphlppl}_\mathtt{r}$	-0.051	1.686	-0.030	0.976	-0.051	-0.212
##	.iplylfr_r	1.188	1.557	0.763	0.445	1.188	5.811
##	.ipeqopt_r	3.370	1.121	3.005	0.003	3.370	14.753
##	$.\mathtt{ipudrst_r}$	0.468	1.420	0.329	0.742	0.468	2.237
##	.impenv_r	3.757	0.704	5.336	0.000	3.757	19.440
##	.Benev_b	0.000				0.000	0.000
##	.Unive_b	0.000				0.000	0.000
##	••						
	Variances:		Q. 1 F	-	D(>)	0.1.7	Q. 1 77
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.iphlppl_r	0.012	0.016	0.780	0.435	0.012	0.214
##	.iplylfr_r	0.013	0.007	1.771	0.077	0.013	0.302
## ##	.ipeqopt_r .ipudrst_r	0.043 -0.052	0.019 0.043	2.284 -1.232	0.022 0.218	0.043 -0.052	0.833 -1.202
##	.impenv_r	0.033	0.043	2.208	0.216	0.033	0.882
##	.Impenv_r .Benev_b	0.035	0.013	1.297	0.027	0.553	0.553
##	.Unive_b	0.023	0.019	0.966	0.133	0.858	0.858
##	.onive_b	0.001	0.000	0.500	0.001	0.000	0.000
	R-Square:						
##	iv bquaro.	Estimate					
##	iphlppl_r	0.786					
##	iplylfr_r	0.698					
##	ipeqopt_r	0.167					
##	ipudrst_r	NA					
##	impenv_r	0.118					
##	Benev_b	0.447					
##	Unive_b	0.142					
##	-						
##	\$FIT						
##		npa	r			fmin	
##		41.00			3	.034	
##		chis				df	
##		10467.25	54		34	.000	
##		pvalu	ıe		chisq.sc		
##		0.00	0		3616	.323	

```
##
                        df.scaled
                                                   pvalue.scaled
##
                           34.000
                                                           0.000
                                                  baseline.chisq
##
            chisq.scaling.factor
                            2.894
                                                       65249.164
##
##
                     baseline.df
                                                 baseline.pvalue
##
                           60.000
                                                           0.000
##
           baseline.chisq.scaled
                                             baseline.df.scaled
                        20489.016
                                                          60.000
##
##
          baseline.pvalue.scaled baseline.chisq.scaling.factor
##
                            0.000
                                                           3.185
##
                              cfi
                                                             tli
                            0.840
                                                           0.718
##
##
                      cfi.scaled
                                                      tli.scaled
##
                            0.825
                                                           0.691
##
                      cfi.robust
                                                      tli.robust
##
                            0.841
                                                           0.719
##
                                               unrestricted.log1
                             logl
                                                     -378797.367
##
                      -384030.994
##
                                                             bic
                              aic
                      768143.987
##
                                                      768480.803
##
                           ntotal
                                                            bic2
##
                        27310.000
                                                      768350.506
##
               scaling.factor.h1
                                               scaling.factor.h0
##
                            5.692
                                                           8.012
##
                            rmsea
                                                  rmsea.ci.lower
##
                            0.106
                                                           0.104
##
                  rmsea.ci.upper
                                                    rmsea.pvalue
                            0.108
                                                           0.000
##
##
                    rmsea.scaled
                                          rmsea.ci.lower.scaled
##
                            0.062
                                                           0.061
##
           rmsea.ci.upper.scaled
                                             rmsea.pvalue.scaled
##
                            0.063
                                                           0.000
                    rmsea.robust
##
                                          rmsea.ci.lower.robust
##
                            0.106
                                                           0.103
##
           rmsea.ci.upper.robust
                                            rmsea.pvalue.robust
##
                            0.109
                                                              NA
##
                             srmr
                                                     srmr within
##
                            0.384
                                                           0.092
##
                     srmr_between
                            0.292
##
##
##
  $PE
             lhs op
                           rhs block level exo
                                                          est
## 1
                                   1
                                                1.000000e+00 0.0000000000
         Benev_w =~ iphlppl_r
         Benev_w =~ iplylfr_r
## 2
                                   1
                                                6.036282e-01 0.0814905453
                                                1.000000e+00 0.0000000000
## 3
         Unive_w =~ ipeqopt_r
                                   1
                                             0 1.033090e+00 0.0413809058
## 4
         Unive_w =~ ipudrst_r
                                   1
## 5
                      impenv_r
                                             0 8.659143e-01 0.0388736352
         Unive_w =~
## 6
         Benev_w ~
                                   1
                                             0 -7.040948e-04 0.0007394515
                         agea
## 7
                                             0 2.497016e-01 0.0186086418
         Benev_w
                         gndrD
                                   1
## 8
         Benev_w ~
                                   1
                                         1
                                             0 8.463124e-02 0.0247054075
                      eisced2
## 9
                                             0 8.545015e-02 0.0392140193
         Benev_w ~
                      eisced3
## 10
         Benev w ~
                      domicil2
                                   1
                                         1
                                             0 2.136763e-02 0.0166876347
## 11
         Benev_w ~
                                            0 -6.741775e-02 0.0421635378
                    domicil3
```

```
## 12
         Benev w
                      domicil4
                                           1
                                               0 -5.088133e-02 0.0332279452
##
   13
                   ~
                                                  2.092843e-03 0.0007383389
         Unive w
                                    1
                                           1
                          agea
                                                  1.269405e-01 0.0171603424
##
   14
         Unive w
                   ~
                         gndrD
                   ~
##
  15
                                                  1.275957e-01 0.0220098903
         Unive_w
                       eisced2
                                    1
                                           1
                                                  2.322812e-01 0.0265822851
##
   16
         Unive w
                       eisced3
                                    1
                   ~
##
  17
         Unive w
                      domicil2
                                    1
                                           1
                                                  5.905689e-02 0.0157164506
## 18
         Unive w
                      domicil3
                                    1
                                           1
                                                 -3.791440e-02 0.0429629362
## 19
         Unive w
                      domicil4
                                    1
                                           1
                                               0
                                                  5.574243e-02 0.0343274051
##
   20
       iphlppl_r ~~ iphlppl_r
                                    1
                                           1
                                                  2.878310e-01 0.0754298242
       iplylfr_r ~~ iplylfr_r
##
   21
                                    1
                                           1
                                                  5.256550e-01 0.0428035803
##
   22
       ipeqopt_r ~~ ipeqopt_r
                                    1
                                           1
                                                  7.240216e-01 0.0442978284
   23
##
       ipudrst_r ~~ ipudrst_r
                                    1
                                           1
                                                  6.502596e-01 0.0221921732
##
   24
        impenv_r ~~
                                    1
                                                  7.605434e-01 0.0566970028
                      impenv_r
                                           1
   25
         Benev_w ~~
                       Benev_w
##
                                    1
                                           1
                                                  5.787377e-01 0.0960768233
##
   26
                                                  3.327658e-01 0.0312883471
         Unive_w ~~
                       Unive_w
                                    1
                                           1
                                               0
##
   27
                                    1
                                           1
                                                  3.410479e+02 0.0000000000
             agea ~~
                          agea
##
   28
                                    1
                                           1
                                                  2.198374e-01 0.0000000000
                         gndrD
             agea ~~
##
   29
             agea ~~
                                               1 -7.871643e-01 0.0000000000
                       eisced2
##
   30
             agea ~~
                       eisced3
                                               1 -4.428063e-01 0.0000000000
                                    1
                                           1
##
   31
            agea ~~
                      domicil2
                                    1
                                               1 -1.265644e-01 0.0000000000
##
   32
             agea ~~
                      domicil3
                                    1
                                           1
                                                  1.319128e-02 0.0000000000
##
   33
            agea ~~
                      domicil4
                                               1 -3.595062e-01 0.0000000000
  34
           gndrD ~~
                                                  2.497038e-01 0.0000000000
##
                         gndrD
                                    1
                                               1
                                           1
   35
                                                  7.219213e-04 0.0000000000
##
           gndrD ~~
                       eisced2
                                    1
##
   36
           gndrD ~~
                       eisced3
                                    1
                                                  3.103269e-03 0.0000000000
   37
           gndrD ~~
                      domicil2
                                    1
                                                  4.278976e-03 0.0000000000
   38
           gndrD ~~
                                               1 -2.766908e-03 0.0000000000
##
                      domicil3
                                    1
                                           1
   39
           gndrD ~~
##
                      domicil4
                                    1
                                           1
                                                  1.353776e-03 0.0000000000
##
   40
         eisced2 ~~
                                    1
                                                  2.139681e-01 0.0000000000
                       eisced2
                                           1
##
   41
         eisced2 ~~
                       eisced3
                                    1
                                           1
                                               1 -7.144008e-02 0.0000000000
         eisced2 ~~
## 42
                      domicil2
                                    1
                                           1
                                               1 5.272074e-03 0.0000000000
##
   43
         eisced2 ~~
                      domicil3
                                    1
                                           1
                                               1 -3.777640e-04 0.0000000000
##
   44
         eisced2 ~~
                      domicil4
                                                  1.122347e-03 0.0000000000
##
   45
         eisced3 ~~
                       eisced3
                                    1
                                                  1.772719e-01 0.0000000000
                                           1
##
   46
         eisced3 ~~
                      domicil2
                                    1
                                               1 -4.220485e-03 0.0000000000
##
         eisced3 ~~
                      domicil3
                                                  8.044033e-03 0.0000000000
   47
                                    1
                                           1
##
   48
         eisced3 ~~
                      domicil4
                                    1
                                           1
                                                  1.710203e-02 0.0000000000
##
  49
        domicil2 ~~
                      domicil2
                                    1
                                                  2.162388e-01 0.0000000000
                                           1
##
   50
        domicil2 ~~
                      domicil3
                                    1
                                               1 -3.335124e-02 0.0000000000
   51
                      domicil4
                                    1
                                               1 -5.284087e-02 0.0000000000
##
        domicil2 ~~
                                           1
   52
        domicil3 ~~
                      domicil3
                                    1
                                                  9.433493e-02 0.0000000000
   53
        domicil3 ~~
                                               1 -1.761974e-02 0.0000000000
##
                      domici14
                                    1
                                           1
##
   54
        domicil4 ~~
                      domicil4
                                    1
                                           1
                                                  1.391654e-01 0.0000000000
##
                                    1
                                           1
                                                  0.000000e+00 0.000000000
   55
       iphlppl_r ~1
##
   56
       iplylfr_r ~1
                                    1
                                          1
                                                  0.000000e+00 0.0000000000
                                    1
                                               0
                                                  0.000000e+00 0.000000000
##
   57
       ipeqopt_r ~1
                                           1
##
   58
       ipudrst_r ~1
                                    1
                                           1
                                                  0.000000e+00 0.0000000000
                                    1
##
   59
        impenv_r ~1
                                           1
                                                  0.000000e+00 0.000000000
##
   60
            agea ~1
                                    1
                                           1
                                                  4.892179e+01 0.0000000000
##
   61
           gndrD ~1
                                    1
                                           1
                                                  5.172098e-01 0.0000000000
##
   62
         eisced2 ~1
                                    1
                                                  3.101794e-01 0.0000000000
                                           1
                                    1
##
   63
         eisced3 ~1
                                           1
                                                  2.303186e-01 0.0000000000
## 64
        domicil2 ~1
                                    1
                                           1
                                               1
                                                  3.162578e-01 0.0000000000
## 65
        domicil3 ~1
                                           1
                                                  1.054559e-01 0.0000000000
```

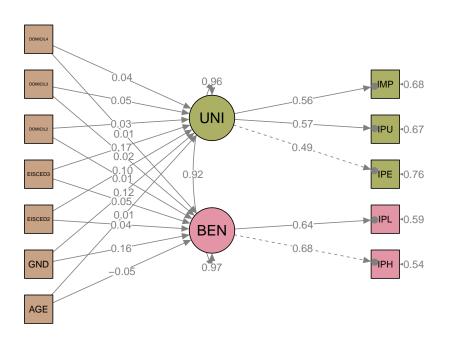
```
## 66
        domicil4 ~1
                                                 1.670817e-01 0.0000000000
##
         Benev_w ~1
                                                 0.000000e+00 0.0000000000
  67
                                    1
                                          1
##
   68
         Unive w ~1
                                                 0.000000e+00 0.0000000000
   69
         Benev_b =~ iphlppl_r
                                    2
                                                 1.000000e+00 0.0000000000
##
##
   70
         Benev_b =~ iplylfr_r
                                    2
                                                 8.010827e-01 0.2413394018
                                    2
                                          2
                                                 1.000000e+00 0.0000000000
##
  71
         Unive b =~ ipeqopt r
  72
         Unive b =~ ipudrst r
                                                 3.319544e+00 2.1853684519
                                    2
                                          2
## 73
         Unive b =~
                      impenv r
                                                 7.111338e-01 0.1996777835
##
  74
         Benev b
                           HDI
                                    2
                                                 5.234324e+00 1.7990530260
                           HDI
                                    2
                                          2
## 75
         Unive_b
                                                 1.293417e+00 1.1998542804
   76
       iphlppl_r ~~ iphlppl_r
                                    2
                                                 1.240679e-02 0.0159023017
                                    2
                                          2
       iplylfr_r ~~ iplylfr_r
                                                 1.264050e-02 0.0071375331
##
   77
                                    2
##
       ipeqopt_r ~~ ipeqopt_r
                                          2
                                                 4.346026e-02 0.0190268419
   78
                                    2
                                          2
                                              0 -5.249873e-02 0.0426193531
##
   79
       ipudrst_r ~~ ipudrst_r
##
  80
                                    2
                                          2
                                                 3.292987e-02 0.0149131938
        impenv_r ~~
                      impenv_r
## 81
         Benev_b ~~
                       Benev_b
                                    2
                                                 2.513313e-02 0.0193783492
                                    2
                                          2
##
  82
         Unive_b ~~
                       Unive_b
                                                 7.488826e-03 0.0077536522
                                    2
##
   83
             HDI ~~
                           HDI
                                                 7.415306e-04 0.0000000000
                                    2
                                          2
                                              0 -5.099011e-02 1.6855691888
##
   84
       iphlppl_r ~1
                                    2
                                          2
##
   85
       iplylfr r ~1
                                                 1.188152e+00 1.5570528490
##
   86
       ipeqopt_r ~1
                                    2
                                          2
                                                 3.370271e+00 1.1214792593
   87
       ipudrst r ~1
                                    2
                                          2
                                                 4.676152e-01 1.4202481502
##
                                    2
                                          2
                                                 3.756692e+00 0.7040404432
## 88
        impenv r ~1
             HDI ~1
                                    2
                                                 9.084286e-01 0.0000000000
##
   89
                                    2
                                          2
##
  90
         Benev b ~1
                                                 0.000000e+00 0.000000000
  91
         Unive b ~1
                                                 0.000000e+00 0.0000000000
                                    1
                                                 6.748230e-01
                                                                          NA
##
  92
       iphlppl_r r2 iphlppl_r
                                          1
##
   93
       iplylfr_r r2 iplylfr_r
                                    1
                                          1
                                                 2.928082e-01
                                                                          NA
                                    1
                                                 3.246482e-01
                                                                          NA
##
   94
       ipeqopt_r r2 ipeqopt_r
                                          1
  95
       ipudrst_r r2 ipudrst_r
                                    1
                                              0
                                                 3.635629e-01
                                                                          NA
##
                                          1
## 96
        impenv_r r2
                      impenv_r
                                    1
                                          1
                                              0
                                                 2.554712e-01
                                                                          NA
##
  97
         Benev_w r2
                       Benev_w
                                    1
                                          1
                                                 3.111097e-02
                                                                          NA
##
   98
         Unive_w r2
                       Unive_w
                                                 4.389822e-02
                                                                          NA
  99
                                    2
                                          2
                                                 7.855592e-01
##
       iphlppl_r r2 iphlppl_r
                                                                          NA
                                    2
      iplylfr_r r2 iplylfr_r
                                                 6.976470e-01
                                                                          NA
   100
                                    2
                                          2
                                                 1.672623e-01
   101 ipeqopt_r r2 ipeqopt_r
                                                                          NΑ
   102 ipudrst r r2 ipudrst r
                                    2
                                          2
                                                                          NA
## 103
        impenv_r r2
                      impenv_r
                                    2
                                          2
                                                 1.182113e-01
                                                                          NA
                                              0
  104
         Benev_b r2
                       Benev b
                                    2
                                          2
                                                 4.470121e-01
                                                                          NA
##
  105
                                    2
                                          2
                                                 1.421098e-01
##
         Unive_b r2
                       Unive_b
                                              0
                                                                          NA
##
                 z
                          pvalue
                                         std.lv
                                                     std.all
                                                                    std.nox
## 1
                                  7.728654e-01
                                                 0.821476125
                                                               8.214761e-01
                 NΑ
                              NΑ
##
  2
        7.40734055 1.287859e-13
                                  4.665234e-01
                                                 0.541117534
                                                               5.411175e-01
  3
##
                              NA
                                  5.899528e-01
                                                 0.569779116
                                                               5.697791e-01
                NA
       24.96538126 0.000000e+00
                                   6.094744e-01
                                                 0.602961801
                                                               6.029618e-01
## 5
       22.27510610 0.000000e+00
                                  5.108486e-01
                                                 0.505441566
                                                               5.054416e-01
##
       -0.95218520 3.410031e-01 -9.110186e-04 -0.016824219 -9.110186e-04
##
       13.41858304 0.000000e+00
                                  3.230855e-01
                                                 0.161447034
                                                               3.230855e-01
## 8
        3.42561618 6.134065e-04
                                  1.095032e-01
                                                 0.050652563
                                                               1.095032e-01
## 9
        2.17907137 2.932637e-02
                                  1.105628e-01
                                                 0.046550991
                                                               1.105628e-01
## 10
        1.28044664 2.003881e-01
                                  2.764728e-02
                                                 0.012856395
                                                               2.764728e-02
## 11
       -1.59895848 1.098298e-01 -8.723090e-02 -0.026792093 -8.723090e-02
## 12
       -1.53128136 1.256999e-01 -6.583466e-02 -0.024559540 -6.583466e-02
        2.83452954 4.589321e-03 3.547476e-03 0.065512944 3.547476e-03
## 13
```

```
7.39731860 1.389999e-13
                                  2.151706e-01 0.107521571
                                                               2.151706e-01
##
  15
        5.79719628 6.743275e-09
                                  2.162811e-01
                                                 0.100044491
                                                               2.162811e-01
                                  3.937284e-01
##
   16
        8.73819413 0.000000e+00
                                                 0.165774113
                                                               3.937284e-01
##
                                  1.001044e-01
                                                 0.046550044
   17
        3.75764791 1.715180e-04
                                                               1.001044e-01
##
   18
       -0.88249097 3.775114e-01
                                 -6.426684e-02 -0.019738913
                                                              -6.426684e-02
                                                 0.035247980
##
        1.62384634 1.044086e-01
                                  9.448626e-02
                                                               9.448626e-02
   19
##
  20
        3.81587832 1.356994e-04
                                  2.878310e-01
                                                 0.325176976
                                                               3.251770e-01
                                                 0.707191814
##
  21
       12.28063158 0.000000e+00
                                  5.256550e-01
                                                               7.071918e-01
##
       16.34440354 0.000000e+00
                                  7.240216e-01
                                                 0.675351759
                                                               6.753518e-01
   22
##
   23
       29.30130440 0.000000e+00
                                   6.502596e-01
                                                 0.636437066
                                                               6.364371e-01
##
   24
       13.41417317 0.000000e+00
                                  7.605434e-01
                                                 0.744528823
                                                               7.445288e-01
##
   25
        6.02369702 1.704774e-09
                                   9.688890e-01
                                                 0.968889029
                                                               9.688890e-01
                                  9.561018e-01
##
   26
       10.63545406 0.000000e+00
                                                 0.956101777
                                                               9.561018e-01
                                  3.410479e+02
##
   27
                 NA
                                                 1.000000000
                                                               3.410479e+02
  28
##
                 NA
                              NΑ
                                  2.198374e-01
                                                 0.023822173
                                                               2.198374e-01
##
   29
                                 -7.871643e-01 -0.092147415 -7.871643e-01
                 NA
##
  30
                 NA
                                 -4.428063e-01 -0.056949004 -4.428063e-01
##
   31
                                 -1.265644e-01 -0.014737949 -1.265644e-01
                 NA
##
  32
                                  1.319128e-02 0.002325642
                                                              1.319128e-02
                 NA
##
   33
                 NA
                                 -3.595062e-01 -0.052183487 -3.595062e-01
##
  34
                 NA
                              NΑ
                                  2.497038e-01
                                                 1.000000000
                                                               2.497038e-01
  35
##
                 NA
                              NΑ
                                  7.219213e-04
                                                 0.003123221
                                                               7.219213e-04
## 36
                                  3.103269e-03
                                                 0.014749824
                                                               3.103269e-03
                 NA
                              NA
##
   37
                 NA
                              NA
                                  4.278976e-03
                                                 0.018414523
                                                               4.278976e-03
##
  38
                 NA
                              NΑ
                                 -2.766908e-03 -0.018027930 -2.766908e-03
##
  39
                 NA
                              NΑ
                                  1.353776e-03
                                                 0.007262207
                                                               1.353776e-03
##
   40
                 NΑ
                              NA
                                  2.139681e-01
                                                 1.000000000
                                                               2.139681e-01
## 41
                 NA
                                 -7.144008e-02 -0.366815252 -7.144008e-02
## 42
                 NΑ
                                  5.272074e-03 0.024509820
                                                               5.272074e-03
## 43
                                 -3.777640e-04 -0.002658947 -3.777640e-04
                 NA
                              NA
## 44
                 NA
                              NA
                                  1.122347e-03
                                                0.006504097
                                                               1.122347e-03
##
  45
                 NA
                              NΑ
                                  1.772719e-01
                                                 1.000000000
                                                               1.772719e-01
##
   46
                 NA
                                  -4.220485e-03 -0.021556367 -4.220485e-03
##
                 NA
                                  8.044033e-03
                                                 0.062203894
                                                               8.044033e-03
  47
                              NA
                                  1.710203e-02
##
   48
                 NA
                                                 0.108883492
                                                               1.710203e-02
## 49
                 NA
                              NΑ
                                  2.162388e-01
                                                1.000000000
                                                               2.162388e-01
## 50
                 NA
                                 -3.335124e-02 -0.233511848 -3.335124e-02
## 51
                                 -5.284087e-02 -0.304605388 -5.284087e-02
                 NA
                              NΑ
                                  9.433493e-02
                                                 1.000000000
                                                               9.433493e-02
## 52
                 NA
## 53
                                 -1.761974e-02 -0.153779230 -1.761974e-02
                 NA
                              NΑ
##
  54
                 NA
                              NΑ
                                  1.391654e-01
                                                 1.000000000
                                                               1.391654e-01
                                                 0.000000000
## 55
                 NA
                              NΑ
                                  0.000000e+00
                                                               0.000000e+00
##
  56
                 NA
                              NA
                                  0.000000e+00
                                                 0.00000000
                                                               0.00000e+00
## 57
                 NΑ
                              NA
                                  0.000000e+00
                                                 0.000000000
                                                               0.000000e+00
## 58
                 NA
                              NA
                                  0.000000e+00
                                                 0.00000000
                                                               0.000000e+00
## 59
                 NΑ
                              NA
                                  0.000000e+00
                                                 0.000000000
                                                               0.000000e+00
## 60
                 NA
                              NA
                                  4.892179e+01
                                                 2.649077414
                                                               4.892179e+01
## 61
                 NA
                              NA
                                  5.172098e-01
                                                 1.035032915
                                                               5.172098e-01
## 62
                 NA
                              NΑ
                                  3.101794e-01
                                                 0.670561196
                                                               3.101794e-01
## 63
                 NA
                              NA
                                  2.303186e-01
                                                 0.547027257
                                                               2.303186e-01
## 64
                 NA
                                                 0.680102563
                                                               3.162578e-01
                              NA
                                  3.162578e-01
## 65
                 NA
                                  1.054559e-01
                                                 0.343347991
                                                               1.054559e-01
## 66
                                  1.670817e-01
                                                 0.447881548
                                                               1.670817e-01
                 NA
                              NΑ
## 67
                                  0.000000e+00
                                                 0.000000000
                                                               0.000000e+00
                 NΑ
```

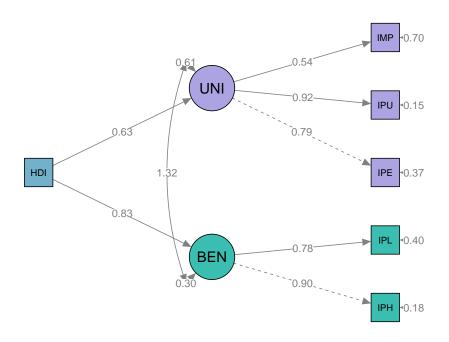
```
## 68
                 NA
                                   0.000000e+00
                                                  0.000000000
                                                                0.000000e+00
                                                                8.863178e-01
## 69
                 NΑ
                               NΑ
                                   2.131893e-01
                                                  0.886317787
##
   70
        3.31931987 9.023700e-04
                                   1.707823e-01
                                                  0.835252648
                                                                8.352526e-01
##
  71
                               NA
                                   9.343100e-02
                                                  0.408977085
                                                                4.089771e-01
                 NΑ
##
   72
        1.51898589 1.287660e-01
                                   3.101483e-01
                                                  1.483755238
                                                                1.483755e+00
        3.56140673 3.688732e-04
                                   6.644194e-02
                                                  0.343818749
##
   73
                                                                3.438187e-01
        2.90948849 3.620207e-03
                                   2.455247e+01
                                                  0.668589669
   74
                                                                2.455247e+01
##
  75
        1.07797805 2.810436e-01
                                   1.384355e+01
                                                  0.376974489
                                                                1.384355e+01
##
   76
        0.78018831 4.352800e-01
                                   1.240679e-02
                                                  0.214440780
                                                                2.144408e-01
##
   77
        1.77098995 7.656237e-02
                                   1.264050e-02
                                                  0.302353014
                                                                3.023530e-01
   78
        2.28415515 2.236241e-02
                                   4.346026e-02
                                                  0.832737744
                                                                8.327377e-01
   79
       -1.23180488 2.180220e-01 -5.249873e-02 -1.201529606
                                                               -1.201530e+00
##
##
   80
        2.20810333 2.723707e-02
                                   3.292987e-02
                                                  0.881788668
                                                                8.817887e-01
                                   5.529879e-01
##
   81
        1.29696958 1.946417e-01
                                                  0.552987854
                                                                5.529879e-01
##
  82
        0.96584496 3.341218e-01
                                   8.578902e-01
                                                  0.857890234
                                                                8.578902e-01
##
  83
                 NA
                               NA
                                   7.415306e-04
                                                  1.00000000
                                                                7.415306e-04
       -0.03025098 9.758669e-01
                                  -5.099011e-02 -0.211987356 -2.119874e-01
##
   84
##
   85
        0.76307744 4.454172e-01
                                   1.188152e+00
                                                  5.810948195
                                                                5.810948e+00
        3.00520138 2.654051e-03
                                   3.370271e+00 14.752743649
                                                                1.475274e+01
##
   86
##
   87
        0.32924897 7.419675e-01
                                   4.676152e-01
                                                  2.237079952
                                                                2.237080e+00
        5.33590434 9.506952e-08
##
   88
                                   3.756692e+00 19.439848317
                                                                1.943985e+01
##
  89
                                   9.084286e-01 33.360015421
                                                                9.084286e-01
                 NA
                               NΑ
## 90
                                   0.000000e+00
                                                  0.000000000
                                                                0.000000e+00
                 NΑ
                               NΑ
## 91
                 NA
                               NA
                                   0.000000e+00
                                                  0.00000000
                                                                0.000000e+00
## 92
                 NA
                               NA
                                              NA
                                                            NA
                                                                           NA
## 93
                 NA
                               NA
                                              NA
                                                            NA
                                                                           NA
## 94
                 NA
                               NA
                                              NA
                                                            NA
                                                                           NA
  95
##
                 NA
                               NA
                                              NA
                                                            NA
                                                                           NA
## 96
                 NA
                               NA
                                                            NA
                                                                           NA
                                              NΑ
## 97
                 NA
                               NA
                                              NA
                                                            NA
                                                                           NA
## 98
                 NA
                               NA
                                              NA
                                                            NA
                                                                           NA
##
  99
                 NA
                               NA
                                              NA
                                                            NA
                                                                           NA
## 100
                 NA
                               NA
                                              NA
                                                            NA
                                                                           NA
## 101
                 NA
                               NA
                                              NA
                                                            NA
                                                                           NA
##
  102
                 NA
                               NA
                                              NA
                                                            NA
                                                                           NA
## 103
                 NA
                                                            NA
                                                                           NA
                               NΑ
                                              NΑ
## 104
                 NA
                               NA
                                              NA
                                                            NA
                                                                           NA
## 105
                 NA
                                                            NA
                                                                           NA
                               NΑ
                                              NΑ
##
   [1] "ESS round:
                     9"
##
           chisq
                         pvalue
                                            cfi
                                                           tli
                                                                        rmsea
##
        9773.976
                          0.000
                                          0.841
                                                         0.719
                                                                        0.104
##
             srmr
                   chisq.scaled pvalue.scaled
                                                   cfi.robust
                                                                   tli.robust
                       3179.849
##
           0.307
                                          0.000
                                                         0.842
                                                                        0.721
##
    rmsea.robust
           0.104
##
                                                                epc sepc.lv
##
             lhs op
                            rhs block group level
                                                          mi
                                                                      0.825
##
  108
         Benev_w
                       Unive_w
                                           1
                                                 1 6727.149 1.133
         Unive_w
##
  109
                       Benev_w
                                    1
                                           1
                                                 1 6727.149 0.592
                                                                      0.813
##
   107
         Benev_w ~~
                       Unive_w
                                    1
                                           1
                                                 1 6727.145 0.313
                                                                      0.819
##
  95
                                                                      0.333
         Unive_w =~ iphlppl_r
                                    1
                                           1
                                                 1 2318.331 0.620
## 96
         Unive_w =~ iplylfr_r
                                    1
                                           1
                                                 1 1756.841 0.493
                                                                      0.265
## 93
         Benev w =~ ipudrst r
                                    1
                                           1
                                                 1 1490.524 0.356
                                                                      0.263
## 94
         Benev w =~ impenv r
                                    1
                                           1
                                                 1 1473.075 0.353
                                                                      0.260
```

```
## 103 iplylfr_r ~~ impenv_r
                                              1 1020.583 0.137
                                                                 0.137
                                1
                                        1
## 92
        Benev_w =~ ipeqopt_r
                                              1 745.214 0.261
                                                                 0.192
                                  1
                                        1
## 99 iphlppl_r ~~ ipudrst_r
                                  1
                                        1
                                              1 714.291 0.124
                                                                 0.124
##
       sepc.all sepc.nox
         0.825
                   0.825
## 108
## 109
          0.813
                   0.813
                   0.819
## 107
          0.819
         0.361
                   0.361
## 95
## 96
         0.313
                   0.313
## 93
         0.263
                   0.263
## 94
         0.267
                   0.267
         0.226
                   0.226
## 103
## 92
          0.189
                   0.189
## 99
          0.285
                   0.285
## Reading model: C:\Users\pamel\Documents\ESS\MPLUS\mmimic9.out
```

Within



Between



## ##	lavaan 0.6-5 ended normally after 33	6 iterations	
##	Estimator	MT.	
##	Optimization method	NLMINB	
##	Number of free parameters	41	
##	1		
##		Used	Total
##	Number of observations	26525	27540
##	Number of clusters [cntry]	14	
##	Sampling weights variable	dweight	
##		•	
##	Model Test User Model:		
##		Standard	Robust
##	Test Statistic	9773.976	3179.849
##	Degrees of freedom	34	34
##	P-value (Chi-square)	0.000	0.000
##	Scaling correction factor		3.074
##	for the Yuan-Bentler correction	(Mplus variant)	
##			
##	Model Test Baseline Model:		
##			
##	Test statistic	61286.099	19448.415
##	Degrees of freedom	60	60
##	P-value	0.000	0.000
##	Scaling correction factor		3.151
##			

```
## User Model versus Baseline Model:
##
                                                     0.841
##
     Comparative Fit Index (CFI)
                                                                 0.838
     Tucker-Lewis Index (TLI)
                                                     0.719
                                                                 0.714
##
##
##
    Robust Comparative Fit Index (CFI)
                                                                 0.842
##
     Robust Tucker-Lewis Index (TLI)
                                                                 0.721
##
## Loglikelihood and Information Criteria:
##
##
     Loglikelihood user model (HO)
                                              -372661.573 -372661.573
##
     Scaling correction factor
                                                                 6.818
##
         for the MLR correction
##
     Loglikelihood unrestricted model (H1)
                                               -367774.585 -367774.585
##
     Scaling correction factor
                                                                 5.121
##
         for the MLR correction
##
     Akaike (AIC)
##
                                                745405.145 745405.145
##
     Bayesian (BIC)
                                                745740.765 745740.765
##
     Sample-size adjusted Bayesian (BIC)
                                                745610.468 745610.468
##
## Root Mean Square Error of Approximation:
##
##
     RMSEA
                                                     0.104
                                                                 0.059
##
     90 Percent confidence interval - lower
                                                     0.102
                                                                 0.058
     90 Percent confidence interval - upper
                                                     0.106
                                                                 0.060
                                                                 0.000
##
     P-value RMSEA <= 0.05
                                                     0.000
##
     Robust RMSEA
##
                                                                 0.104
     90 Percent confidence interval - lower
                                                                 0.101
##
     90 Percent confidence interval - upper
                                                                 0.107
##
## Standardized Root Mean Square Residual (corr metric):
##
##
     SRMR (within covariance matrix)
                                                     0.090
                                                                 0.090
##
     SRMR (between covariance matrix)
                                                     0.217
                                                                 0.217
##
## Parameter Estimates:
##
                                                       Observed
##
     Information
##
     Observed information based on
                                                        Hessian
##
     Standard errors
                                            Robust.huber.white
##
##
## Level 1 [within]:
##
## Latent Variables:
##
                      Estimate Std.Err z-value P(>|z|)
                                                             Std.lv Std.all
     Benev_w =~
##
##
       iphlppl_r
                         1.000
                                                              0.738
                                                                       0.800
##
       iplylfr_r
                         0.617
                                  0.094
                                            6.583
                                                     0.000
                                                              0.455
                                                                       0.537
##
     Unive w =~
##
       ipeqopt_r
                         1.000
                                                              0.537
                                                                       0.527
                                                              0.614
##
       ipudrst r
                         1.143
                                  0.036
                                           31.481
                                                     0.000
                                                                       0.617
```

```
0.000
                                                                 0.478
                                                                          0.491
##
       impenv_r
                          0.890
                                    0.042
                                            21.357
##
## Regressions:
##
                       Estimate Std.Err z-value P(>|z|)
                                                                Std.lv Std.all
##
     Benev_w ~
                                    0.001
##
       agea
                         -0.001
                                            -1.927
                                                       0.054
                                                                -0.002
                                                                         -0.031
##
       gndrD
                          0.240
                                    0.024
                                             9.845
                                                       0.000
                                                                 0.326
                                                                          0.163
                                    0.023
##
                          0.059
                                             2.592
                                                       0.010
                                                                 0.079
                                                                          0.037
       eisced2
##
       eisced3
                          0.056
                                    0.037
                                             1.517
                                                       0.129
                                                                 0.075
                                                                           0.032
##
       domicil2
                          0.003
                                    0.022
                                             0.129
                                                       0.897
                                                                 0.004
                                                                          0.002
##
       domicil3
                          0.026
                                    0.031
                                             0.817
                                                       0.414
                                                                 0.035
                                                                           0.011
##
                          0.002
                                    0.025
                                             0.095
                                                       0.925
       domicil4
                                                                 0.003
                                                                          0.001
##
     Unive_w ~
##
                         -0.000
                                    0.001
                                            -0.183
                                                       0.855
                                                                -0.000
                                                                         -0.004
       agea
##
                          0.131
                                    0.016
                                             8.204
                                                       0.000
                                                                 0.243
                                                                          0.122
       gndrD
##
       eisced2
                          0.107
                                    0.013
                                             8.032
                                                       0.000
                                                                 0.199
                                                                          0.093
##
       eisced3
                          0.203
                                    0.016
                                                       0.000
                                                                 0.378
                                                                          0.162
                                            12.731
                                    0.018
##
       domicil2
                          0.032
                                             1.754
                                                       0.079
                                                                 0.059
                                                                           0.028
##
       domicil3
                          0.074
                                    0.027
                                              2.781
                                                       0.005
                                                                 0.138
                                                                           0.044
##
                                              2.606
       domicil4
                          0.069
                                    0.026
                                                       0.009
                                                                 0.128
                                                                           0.048
##
## Intercepts:
##
                       Estimate Std.Err z-value P(>|z|)
                                                                Std.lv
                                                                        Std.all
##
      .iphlppl r
                          0.000
                                                                 0.000
                                                                          0.000
##
                          0.000
                                                                 0.000
                                                                          0.000
      .iplylfr_r
##
      .ipeqopt_r
                          0.000
                                                                 0.000
                                                                           0.000
##
      .ipudrst_r
                          0.000
                                                                 0.000
                                                                           0.000
##
                          0.000
                                                                 0.000
                                                                           0.000
      .impenv_r
##
                          0.000
                                                                 0.000
                                                                           0.000
      .Benev_w
##
                          0.000
                                                                 0.000
                                                                           0.000
      .Unive_w
##
## Variances:
##
                                  Std.Err z-value P(>|z|)
                                                                Std.lv Std.all
                       Estimate
##
                          0.306
                                    0.061
                                             5.051
                                                       0.000
                                                                 0.306
                                                                           0.360
      .iphlppl_r
                          0.510
                                    0.041
##
      .iplylfr_r
                                            12.365
                                                       0.000
                                                                 0.510
                                                                           0.711
                                    0.040
##
                          0.751
                                            19.017
                                                       0.000
                                                                 0.751
                                                                          0.722
      .ipeqopt_r
##
      .ipudrst r
                          0.616
                                    0.027
                                            23.039
                                                       0.000
                                                                 0.616
                                                                           0.620
##
      .impenv_r
                          0.721
                                    0.042
                                            17.262
                                                       0.000
                                                                 0.721
                                                                           0.759
                                    0.090
##
      .Benev w
                          0.528
                                             5.848
                                                       0.000
                                                                 0.971
                                                                           0.971
##
                          0.276
                                    0.018
                                                       0.000
                                                                 0.956
                                                                           0.956
      .Unive_w
                                            15.655
##
## R-Square:
##
                       Estimate
##
                          0.640
       iphlppl_r
##
                          0.289
       iplylfr_r
##
                          0.278
       ipeqopt_r
##
                          0.380
       ipudrst_r
##
                          0.241
       impenv_r
##
       Benev_w
                          0.029
##
       Unive_w
                          0.044
##
##
## Level 2 [cntry]:
##
```

	Latent Variables:				- () ()		
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev_b =~	4 000				0.045	0.000
##	iphlppl_r	1.000	0.400	4 000	0 000	0.215	0.838
##	iplylfr_r	0.754	0.189	4.000	0.000	0.162	0.829
##	Unive_b =~	1 000				0 120	0 500
##	ipeqopt_r	1.000	0 077	0 107	0 000	0.130	0.523
##	ipudrst_r	2.116	0.677	3.127	0.002	0.275	1.232
## ##	impenv_r	0.657	0.180	3.646	0.000	0.086	0.542
##	Regressions:						
##	Regressions.	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	Benev_b ~	LSCIMACE	Dua.LII	Z varue	1 (> 2)	btu.iv	bud.all
##	HDI	7.044	1.699	4.145	0.000	32.790	0.852
##	Unive_b ~	7.044	1.033	7.170	0.000	02.130	0.002
##	HDI	2.761	1.380	2.000	0.045	21.212	0.551
##	1101	2.701	1.000	2.000	0.040	21.212	0.001
##	Intercepts:						
##	intercepts.	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.iphlppl_r	-1.671	1.605	-1.041	0.298	-1.671	-6.521
##	.iplylfr_r	0.196	1.118	0.175	0.861	0.196	1.000
##	.ipeqopt_r	2.140	1.292	1.657	0.098	2.140	8.604
##	.ipudrst_r	-0.853	1.343	-0.635	0.525	-0.853	-3.817
##	.impenv_r	3.189	0.694	4.595	0.000	3.189	20.200
##	.Benev_b	0.000				0.000	0.000
##	.Unive_b	0.000				0.000	0.000
##	-						
##	Variances:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.iphlppl_r	0.020	0.012	1.620	0.105	0.020	0.297
##	.iplylfr_r	0.012	0.006	2.100	0.036	0.012	0.313
##	$. {\tt ipeqopt_r}$	0.045	0.024	1.907	0.057	0.045	0.726
##	.ipudrst_r	-0.026	0.015	-1.693	0.091	-0.026	-0.518
##	$.{\tt impenv_r}$	0.018	0.007	2.507	0.012	0.018	0.707
##	.Benev_b	0.013	0.010	1.328	0.184	0.275	0.275
##	.Unive_b	0.012	0.007	1.717	0.086	0.697	0.697
##							
	R-Square:						
##		Estimate					
##	iphlppl_r	0.703					
##	iplylfr_r	0.687					
##	ipeqopt_r	0.274					
##	ipudrst_r	NA					
##	impenv_r	0.293					
##	Benev_b	0.725					
##	Unive_b	0.303					
##	ФЕТТ						
##	\$FIT					· · · · · ·	
##		npa				fmin	
## ##	41.000 3.022						
##		chis 9773.97	-		31	df .000	
##		pvalu			chisq.sc		
##		0.00			3179		
ππ		0.00			0113	.040	

```
pvalue.scaled
##
                        df.scaled
##
                           34.000
                                                           0.000
                                                  baseline.chisq
##
            chisq.scaling.factor
                            3.074
                                                       61286.099
##
##
                     baseline.df
                                                 baseline.pvalue
##
                           60.000
                                                           0.000
##
           baseline.chisq.scaled
                                              baseline.df.scaled
                        19448.415
                                                          60.000
##
##
          baseline.pvalue.scaled baseline.chisq.scaling.factor
##
                            0.000
                                                           3.151
##
                              cfi
                                                             tli
                            0.841
                                                           0.719
##
##
                       cfi.scaled
                                                      tli.scaled
##
                            0.838
                                                           0.714
##
                       cfi.robust
                                                      tli.robust
##
                            0.842
                                                           0.721
##
                                               unrestricted.log1
                             logl
                                                     -367774.585
##
                      -372661.573
##
                                                             bic
                              aic
                                                      745740.765
                       745405.145
##
##
                           ntotal
                                                            bic2
##
                        26525.000
                                                      745610.468
##
               scaling.factor.h1
                                               scaling.factor.h0
##
                            5.121
                                                           6.818
##
                            rmsea
                                                  rmsea.ci.lower
##
                            0.104
                                                           0.102
##
                  rmsea.ci.upper
                                                    rmsea.pvalue
                            0.106
                                                           0.000
##
##
                    rmsea.scaled
                                          rmsea.ci.lower.scaled
##
                            0.059
                                                           0.058
##
           rmsea.ci.upper.scaled
                                             rmsea.pvalue.scaled
##
                            0.060
                                                           0.000
                     rmsea.robust
##
                                          rmsea.ci.lower.robust
##
                            0.104
                                                           0.101
##
           rmsea.ci.upper.robust
                                            rmsea.pvalue.robust
##
                            0.107
                                                              NA
##
                             srmr
                                                     srmr within
##
                            0.307
                                                           0.090
##
                     srmr_between
##
                            0.217
##
   $PE
##
             lhs op
                           rhs block level exo
                                                          est
## 1
                                   1
                                                1.000000e+00 0.0000000000
         Benev_w =~ iphlppl_r
         Benev_w =~ iplylfr_r
## 2
                                                6.166982e-01 0.0936806672
                                                1.000000e+00 0.0000000000
## 3
         Unive_w =~ ipeqopt_r
                                   1
                                              0 1.143382e+00 0.0363196222
## 4
         Unive_w =~ ipudrst_r
                                   1
## 5
         Unive_w =~
                      impenv_r
                                              0 8.896918e-01 0.0416572188
## 6
         Benev_w ~
                                   1
                                             0 -1.212819e-03 0.0006294331
                         agea
## 7
                                             0 2.401320e-01 0.0243901603
         Benev_w
                         gndrD
                                   1
## 8
         Benev_w ~
                       eisced2
                                   1
                                         1
                                             0 5.861478e-02 0.0226105928
## 9
                                             0 5.563714e-02 0.0366878092
         Benev_w ~
                       eisced3
## 10
         Benev w ~
                      domicil2
                                   1
                                         1
                                             0 2.807309e-03 0.0216858866
## 11
         Benev_w ~
                                              0 2.558375e-02 0.0312969402
                    domicil3
```

```
## 12
         Benev w
                      domicil4
                                                 2.321704e-03 0.0245369128
##
   13
                   ~
                                                 -1.019597e-04 0.0005574170
         Unive w
                                    1
                          agea
         Unive w
                                                  1.308241e-01 0.0159454610
##
   14
                   ~
                         gndrD
                   ~
##
  15
                                                  1.068951e-01 0.0133088808
         Unive_w
                       eisced2
                                    1
                                           1
##
   16
         Unive w
                       eisced3
                                    1
                                                  2.029753e-01 0.0159432712
                   ~
##
  17
         Unive w
                      domicil2
                                    1
                                           1
                                                  3.185046e-02 0.0181615200
## 18
         Unive w
                      domicil3
                                    1
                                           1
                                                  7.419736e-02 0.0266788889
## 19
         Unive w
                      domicil4
                                    1
                                           1
                                               0
                                                  6.870119e-02 0.0263632628
##
   20
       iphlppl_r ~~ iphlppl_r
                                    1
                                           1
                                                  3.063811e-01 0.0606600751
       iplylfr_r ~~ iplylfr_r
##
   21
                                    1
                                           1
                                                  5.096253e-01 0.0412144702
##
   22
       ipeqopt_r ~~ ipeqopt_r
                                    1
                                           1
                                                  7.514729e-01 0.0395158488
   23
##
       ipudrst_r ~~ ipudrst_r
                                    1
                                           1
                                                  6.157266e-01 0.0267248721
##
   24
        impenv_r ~~
                                    1
                                                  7.212581e-01 0.0417838043
                      impenv_r
                                           1
   25
         Benev_w ~~
                       Benev_w
##
                                    1
                                           1
                                                  5.280110e-01 0.0902829741
##
   26
                                                  2.760691e-01 0.0176344316
         Unive_w ~~
                       Unive_w
                                    1
                                           1
                                               0
##
   27
                                    1
                                           1
                                               1
                                                  3.476750e+02 0.0000000000
             agea ~~
                          agea
##
   28
                                    1
                                           1
                                                  2.426912e-01 0.0000000000
                         gndrD
             agea ~~
##
   29
             agea ~~
                                               1 -6.507168e-01 0.0000000000
                       eisced2
##
   30
             agea ~~
                       eisced3
                                               1 -5.406374e-01 0.0000000000
                                    1
                                           1
##
   31
            agea ~~
                      domicil2
                                    1
                                               1 -4.031874e-02 0.0000000000
##
   32
             agea ~~
                      domicil3
                                    1
                                           1
                                                  7.142469e-02 0.0000000000
##
   33
            agea ~~
                      domicil4
                                               1 -3.147939e-01 0.0000000000
  34
           gndrD ~~
                                                  2.492865e-01 0.0000000000
##
                         gndrD
                                    1
                                               1
                                           1
   35
##
           gndrD ~~
                       eisced2
                                    1
                                                  2.435458e-03 0.0000000000
##
   36
           gndrD ~~
                       eisced3
                                    1
                                           1
                                                  1.850434e-03 0.0000000000
   37
           gndrD ~~
                      domicil2
                                    1
                                                  5.429576e-03 0.0000000000
   38
           gndrD ~~
                                                  2.237286e-05 0.0000000000
##
                      domicil3
                                    1
                                           1
                                               1
   39
           gndrD ~~
##
                      domicil4
                                    1
                                           1
                                                  1.692725e-04 0.0000000000
##
   40
         eisced2 ~~
                                    1
                                                  2.174369e-01 0.0000000000
                       eisced2
                                           1
##
   41
         eisced2 ~~
                       eisced3
                                    1
                                           1
                                               1 -7.776361e-02 0.0000000000
         eisced2 ~~
## 42
                      domicil2
                                    1
                                           1
                                                  5.859252e-03 0.0000000000
##
   43
         eisced2 ~~
                      domicil3
                                    1
                                           1
                                               1 -1.655407e-03 0.0000000000
##
   44
         eisced2 ~~
                      domicil4
                                                  3.408555e-03 0.0000000000
##
   45
         eisced3 ~~
                       eisced3
                                    1
                                                  1.841335e-01 0.0000000000
                                           1
##
   46
         eisced3 ~~
                      domicil2
                                    1
                                               1 -2.470509e-03 0.0000000000
##
   47
         eisced3 ~~
                      domicil3
                                    1
                                                  1.013673e-02 0.0000000000
                                           1
##
   48
         eisced3 ~~
                      domicil4
                                    1
                                           1
                                                  1.310933e-02 0.0000000000
##
  49
        domicil2 ~~
                      domicil2
                                    1
                                                  2.156720e-01 0.0000000000
                                           1
##
   50
        domicil2 ~~
                      domicil3
                                    1
                                           1
                                               1 -3.593941e-02 0.0000000000
   51
                      domicil4
                                    1
                                               1 -5.486425e-02 0.0000000000
##
        domicil2 ~~
                                           1
   52
        domicil3 ~~
                      domicil3
                                    1
                                                  1.011539e-01 0.0000000000
   53
        domicil3 ~~
                                               1 -1.990702e-02 0.0000000000
##
                      domici14
                                    1
                                           1
##
   54
        domicil4 ~~
                      domicil4
                                    1
                                           1
                                                  1.439365e-01 0.0000000000
##
                                    1
                                           1
                                                  0.000000e+00 0.000000000
   55
       iphlppl_r ~1
##
   56
       iplylfr_r ~1
                                    1
                                          1
                                                  0.000000e+00 0.0000000000
                                    1
                                               0
                                                  0.000000e+00 0.000000000
##
   57
       ipeqopt_r ~1
                                           1
##
   58
       ipudrst_r ~1
                                    1
                                           1
                                                  0.000000e+00 0.0000000000
                                    1
##
   59
        impenv_r ~1
                                           1
                                                  0.000000e+00 0.000000000
##
   60
            agea ~1
                                    1
                                           1
                                                  4.992818e+01 0.0000000000
##
   61
           gndrD ~1
                                    1
                                           1
                                                  5.267107e-01 0.0000000000
##
   62
         eisced2 ~1
                                    1
                                                  3.195476e-01 0.0000000000
                                           1
                                    1
##
   63
         eisced3 ~1
                                           1
                                                  2.433553e-01 0.0000000000
## 64
        domicil2 ~1
                                    1
                                           1
                                               1
                                                  3.147220e-01 0.0000000000
## 65
        domicil3 ~1
                                           1
                                                  1.141942e-01 0.0000000000
```

```
## 66
        domicil4 ~1
                                                 1.743261e-01 0.0000000000
##
         Benev_w ~1
                                                 0.000000e+00 0.0000000000
  67
                                   1
                                          1
                                                 0.000000e+00 0.0000000000
##
   68
         Unive w ~1
  69
         Benev_b =~ iphlppl_r
                                   2
                                                 1.000000e+00 0.0000000000
##
##
   70
         Benev_b =~ iplylfr_r
                                   2
                                                 7.543921e-01 0.1885758958
                                   2
                                          2
                                                 1.000000e+00 0.0000000000
##
  71
         Unive b =~ ipeqopt r
  72
         Unive b =~ ipudrst r
                                                 2.115794e+00 0.6766789816
                                   2
                                          2
                                                 6.571030e-01 0.1802128393
## 73
         Unive b =~
                      impenv r
##
  74
         Benev b
                           HDI
                                   2
                                                 7.043518e+00 1.6993747207
                           HDI
                                   2
                                          2
## 75
         Unive_b
                                                 2.760795e+00 1.3800998092
   76
       iphlppl_r ~~ iphlppl_r
                                   2
                                                 1.953894e-02 0.0120579810
                                   2
                                          2
       iplylfr_r ~~ iplylfr_r
##
   77
                                                 1.195588e-02 0.0056928418
                                   2
##
       ipeqopt_r ~~ ipeqopt_r
                                          2
                                                 4.491284e-02 0.0235510634
   78
                                   2
                                          2
                                              0 -2.586089e-02 0.0152784516
##
   79
       ipudrst_r ~~ ipudrst_r
## 80
                                   2
                                          2
                                                 1.760702e-02 0.0070244526
        impenv_r ~~
                      impenv_r
## 81
         Benev_b ~~
                       Benev_b
                                   2
                                                 1.268341e-02 0.0095523068
                                   2
                                          2
##
  82
         Unive_b ~~
                       Unive_b
                                                 1.179951e-02 0.0068727333
                                   2
##
  83
             HDI ~~
                           HDI
                                                 6.743929e-04 0.0000000000
                                   2
                                          2
                                              0 -1.671207e+00 1.6046725620
##
   84
       iphlppl_r ~1
                                   2
                                          2
##
   85
       iplylfr r ~1
                                                 1.955243e-01 1.1183850141
##
   86
       ipeqopt_r ~1
                                   2
                                          2
                                                 2.139936e+00 1.2915219306
   87
       ipudrst r ~1
                                   2
                                          2
                                              0 -8.532201e-01 1.3432228045
##
                                   2
                                          2
                                                 3.188948e+00 0.6940126103
## 88
        impenv r ~1
   89
                                   2
                                                 9.135000e-01 0.0000000000
##
             HDI ~1
                                   2
                                          2
## 90
         Benev b ~1
                                                 0.000000e+00 0.000000000
  91
         Unive b ~1
                                                 0.000000e+00 0.0000000000
       iphlppl_r r2 iphlppl_r
                                   1
                                                 6.396895e-01
                                                                          NA
##
  92
                                          1
##
   93
       iplylfr_r r2 iplylfr_r
                                   1
                                          1
                                                 2.887259e-01
                                                                          NA
                                                 2.776396e-01
                                   1
                                                                          NA
##
   94
       ipeqopt_r r2 ipeqopt_r
                                          1
  95
       ipudrst_r r2 ipudrst_r
                                   1
                                              0
                                                 3.801324e-01
                                                                          NA
##
                                          1
## 96
        impenv_r r2
                      impenv_r
                                   1
                                          1
                                              0
                                                 2.406859e-01
                                                                          NA
##
  97
         Benev_w r2
                       Benev_w
                                   1
                                          1
                                                 2.929210e-02
                                                                          NA
##
   98
         Unive_w r2
                       Unive_w
                                                 4.417807e-02
                                                                          NA
  99
                                   2
                                          2
                                                 7.025119e-01
##
       iphlppl_r r2 iphlppl_r
                                                                          NA
                                   2
      iplylfr_r r2 iplylfr_r
                                                 6.871414e-01
                                                                          NA
   100
                                   2
                                          2
                                                 2.738727e-01
                                                                          NA
   101 ipeqopt_r r2 ipeqopt_r
   102 ipudrst r r2 ipudrst r
                                   2
                                          2
                                                                          NA
## 103
        impenv_r r2
                      impenv r
                                   2
                                          2
                                              0
                                                 2.934960e-01
                                                                          NA
         Benev_b r2
## 104
                       Benev b
                                   2
                                          2
                                                 7.251151e-01
                                                                          NA
  105
                                   2
                                          2
                                              0
                                                 3.034415e-01
##
         Unive_b r2
                       Unive_b
                                                                          NΑ
##
                 z
                          pvalue
                                         std.lv
                                                      std.all
                                                                     std.nox
## 1
                                  7.375258e-01
                                                 0.7998059380
                                                                7.998059e-01
                NΑ
                              NΑ
##
  2
        6.58298263 4.611023e-11
                                  4.548308e-01
                                                 0.5373322365
                                                                5.373322e-01
  3
##
                              NA
                                  5.374282e-01
                                                 0.5269151968
                                                                5.269152e-01
                NA
       31.48112132 0.000000e+00
                                  6.144859e-01
                                                 0.6165487804
                                                                6.165488e-01
## 5
       21.35744558 0.000000e+00
                                  4.781454e-01
                                                 0.4905975343
                                                                4.905975e-01
##
       -1.92684273 5.399923e-02 -1.644442e-03 -0.0306623440 -1.644442e-03
##
        9.84544759 0.000000e+00
                                  3.255914e-01
                                                 0.1625632340
                                                                3.255914e-01
## 8
        2.59235926 9.532017e-03
                                  7.947489e-02
                                                 0.0370592466
                                                                7.947489e-02
## 9
        1.51650207 1.293924e-01
                                  7.543755e-02
                                                 0.0323708422
                                                                7.543755e-02
## 10
                                  3.806388e-03
                                                                3.806388e-03
        0.12945327 8.969990e-01
                                                 0.0017677056
## 11
        0.81745213 4.136701e-01
                                  3.468862e-02
                                                 0.0110326087
                                                                3.468862e-02
## 12
        0.09462088 9.246160e-01 3.147964e-03
                                                 0.0011943048
                                                                3.147964e-03
## 13
       -0.18291450 8.548651e-01 -1.897177e-04 -0.0035374852 -1.897177e-04
```

```
## 14
        8.20447012 2.220446e-16
                                  2.434261e-01 0.1215392684
                                                                2.434261e-01
##
                                                 0.0927479097
  15
        8.03186422 8.881784e-16
                                  1.989012e-01
                                                                1.989012e-01
                                  3.776789e-01
                                                 0.1620649468
##
   16
       12.73109202 0.000000e+00
                                                                3.776789e-01
##
        1.75373292 7.947628e-02
                                  5.926458e-02
                                                 0.0275227712
   17
                                                                5.926458e-02
##
   18
        2.78112616 5.417068e-03
                                  1.380600e-01
                                                 0.0439095739
                                                                1.380600e-01
##
  19
        2.60594402 9.162143e-03
                                  1.278332e-01
                                                 0.0484986129
                                                                1.278332e-01
##
  20
        5.05078743 4.399925e-07
                                   3.063811e-01
                                                 0.3603104616
                                                                3.603105e-01
                                  5.096253e-01
                                                                7.112741e-01
## 21
       12.36520271 0.000000e+00
                                                 0.7112740676
##
       19.01699907 0.000000e+00
                                  7.514729e-01
                                                 0.7223603754
                                                                7.223604e-01
   22
##
   23
       23.03945916 0.000000e+00
                                   6.157266e-01
                                                 0.6198676014
                                                                6.198676e-01
##
   24
       17.26166696 0.000000e+00
                                  7.212581e-01
                                                 0.7593140593
                                                                7.593141e-01
##
   25
        5.84840064 4.963220e-09
                                  9.707079e-01
                                                 0.9707078965
                                                                9.707079e-01
                                  9.558219e-01
                                                 0.9558219273
##
   26
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                                                                9.558219e-01
                                                 1.0000000000
##
   27
                NA
                              NA
                                  3.476750e+02
                                                                3.476750e+02
## 28
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                              NΑ
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                                                 0.0260686109
                                                                2.426912e-01
##
  29
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                                 -6.507168e-01 -0.0748408359 -6.507168e-01
##
  30
                NA
                                 -5.406374e-01 -0.0675698567 -5.406374e-01
##
   31
                                 -4.031874e-02 -0.0046561113 -4.031874e-02
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##
  32
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                NA
##
  33
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                                 -3.147939e-01 -0.0444993986 -3.147939e-01
## 34
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                              NΑ
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                                                 1.0000000000
                                                                2.492865e-01
  35
                                  2.435458e-03
                                                 0.0104607929
##
                NA
                              NΑ
                                                                2.435458e-03
## 36
                              NA
                                  1.850434e-03
                                                 0.0086368958
                                                                1.850434e-03
                NA
##
   37
                NA
                              NA
                                  5.429576e-03
                                                 0.0234163679
                                                                5.429576e-03
## 38
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                              NΑ
                                  2.237286e-05
                                                 0.0001408902
                                                                2.237286e-05
##
  39
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                              NΑ
                                  1.692725e-04
                                                 0.0008936171
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##
  40
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## 41
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## 42
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## 43
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                              NA
## 44
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                              NA
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                                                                3.408555e-03
##
  45
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                              NΑ
                                  1.841335e-01
                                                 1.0000000000
                                                                1.841335e-01
##
   46
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                                 -2.470509e-03 -0.0123971859 -2.470509e-03
## 47
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                                                0.0742745760
                                                               1.013673e-02
                              NA
                                  1.310933e-02
                                                 0.0805246015
                                                                1.310933e-02
##
   48
                NA
## 49
                NA
                              NΑ
                                  2.156720e-01 1.0000000000
                                                                2.156720e-01
## 50
                NA
                                 -3.593941e-02 -0.2433227894 -3.593941e-02
## 51
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                NA
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                                  1.011539e-01
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                                                               1.011539e-01
## 52
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                                 -1.990702e-02 -0.1649793583 -1.990702e-02
## 53
                NA
                              NΑ
##
  54
                NA
                              NΑ
                                  1.439365e-01
                                                 1.0000000000
                                                                1.439365e-01
                                                 0.000000000
## 55
                NA
                              NΑ
                                  0.000000e+00
                                                                0.000000e+00
## 56
                NA
                              NA
                                  0.000000e+00
                                                 0.000000000
                                                                0.000000e+00
## 57
                                                 0.000000000
                NΑ
                              NA
                                  0.000000e+00
                                                                0.000000e+00
## 58
                NA
                              NA
                                  0.000000e+00
                                                 0.000000000
                                                                0.000000e+00
## 59
                NΑ
                              NA
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                                                 0.000000000
                                                                0.000000e+00
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## 60
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                                                                4.992818e+01
## 61
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                              NA
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## 62
                NA
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                                                                3.195476e-01
## 63
                NA
                              NA
                                  2.433553e-01
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                                                                2.433553e-01
                                                 0.6776885010
## 64
                NA
                                  3.147220e-01
                                                                3.147220e-01
                              NA
## 65
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                                  1.141942e-01
                                                 0.3590481306
                                                                1.141942e-01
## 66
                                  1.743261e-01
                                                 0.4594909268
                                                                1.743261e-01
                NΑ
                              NΑ
## 67
                                  0.000000e+00
                                                 0.0000000000
                                                               0.000000e+00
                NΑ
```

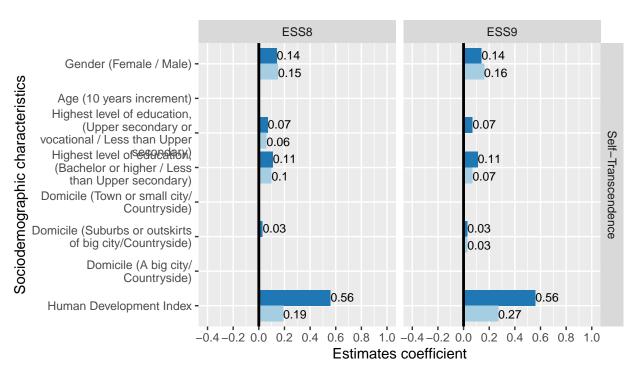
```
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                                   0.000000e+00
                                                  0.000000000
                                                                 0.000000e+00
## 69
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                                                  0.8381598338
                                                                 8.381598e-01
##
  70
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                                   1.620465e-01
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                                                                 8.289399e-01
##
                                                                 5.233285e-01
  71
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                              NA
                                   1.301527e-01
                                                  0.5233284611
##
   72
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                                   2.753763e-01
                                                  1.2318748630
                                                                 1.231875e+00
        3.64626089 2.660838e-04
##
  73
                                   8.552374e-02
                                                  0.5417527344
                                                                 5.417527e-01
##
  74
        4.14477010 3.401548e-05
                                   3.279042e+01
                                                  0.8515369126
                                                                 3.279042e+01
## 75
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                                   2.121197e+01
                                                  0.5508552305
                                                                 2.121197e+01
##
  76
        1.62041594 1.051430e-01
                                   1.953894e-02
                                                  0.2974880930
                                                                 2.974881e-01
##
  77
        2.10015999 3.571477e-02
                                   1.195588e-02
                                                  0.3128586218
                                                                 3.128586e-01
   78
        1.90704071 5.651532e-02
                                   4.491284e-02
                                                  0.7261273218
                                                                 7.261273e-01
   79
##
       -1.69263827 9.052434e-02 -2.586089e-02
                                                 -0.5175156780
                                                                -5.175157e-01
                                                                 7.065040e-01
##
   80
        2.50653199 1.219220e-02
                                   1.760702e-02
                                                  0.7065039747
  81
        1.32778514 1.842491e-01
                                                  0.2748848865
##
                                   2.748849e-01
                                                                 2.748849e-01
## 82
        1.71685860 8.600501e-02
                                   6.965585e-01
                                                  0.6965585150
                                                                 6.965585e-01
##
  83
                 NA
                                   6.743929e-04
                                                  1.000000000
                                                                 6.743929e-04
##
   84
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                                                               -6.521003e+00
##
   85
        0.17482739 8.612153e-01
                                   1.955243e-01
                                                  1.0001937399
                                                                 1.000194e+00
        1.65690994 9.753768e-02
##
   86
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                                                  8.6044246303
                                                                 8.604425e+00
                                                                -3.816815e+00
##
   87
       -0.63520367 5.252956e-01 -8.532201e-01 -3.8168145684
##
  88
        4.59494174 4.328702e-06
                                   3.188948e+00 20.2004854811
                                                                 2.020049e+01
  89
                                   9.135000e-01 35.1764550515
                                                                 9.135000e-01
##
                 NA
                              NA
## 90
                                                  0.000000000
                                                                 0.000000e+00
                 NA
                              NA
                                   0.000000e+00
## 91
                                   0.000000e+00
                                                  0.000000000
                                                                 0.000000e+00
                 NA
                              NA
## 92
                 ΝA
                              NA
                                              NA
                                                             ΝA
                                                                            NA
## 93
                 NA
                              NA
                                              NA
                                                             NA
                                                                            NA
## 94
                               NA
                                                             NA
                                                                            NA
                 NΑ
                                              NA
## 95
                 NA
                              NA
                                              NA
                                                             NA
                                                                            NA
## 96
                 NΑ
                               NA
                                              NA
                                                             ΝA
                                                                            NA
## 97
                              NA
                                                                            NA
                 NA
                                              NA
                                                             NA
## 98
                 NA
                               NA
                                              NA
                                                             NA
                                                                            NA
## 99
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                              NA
                                              NA
                                                             NA
                                                                            NA
## 100
                 NA
                               NA
                                              NA
                                                             NA
                                                                            NA
## 101
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                                                                            NA
                               NA
                                              NA
                                                             ΝA
## 102
                 NA
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                               NA
                                              NA
                                                             NA
## 103
                 NA
                              NA
                                              NA
                                                             NA
                                                                            NA
## 104
                 NA
                               NA
                                              NA
                                                             NA
                                                                            NA
## 105
                                                                            NA
                 NA
                               NA
                                              NA
                                                             NA
```

Results

Reading model: C:\Users\pamel\Documents\ESS\MPLUS\sem8.out
Reading model: C:\Users\pamel\Documents\ESS\MPLUS\sem9.out
Reading model: C:\Users\pamel\Documents\ESS\MPLUS\msem9.out
Reading model: C:\Users\pamel\Documents\ESS\MPLUS\msem9.out

Coefficient regression





Reading model: C:\Users\pamel\Documents\ESS\MPLUS\mimic8.out
Reading model: C:\Users\pamel\Documents\ESS\MPLUS\mimic9.out
Reading model: C:\Users\pamel\Documents\ESS\MPLUS\mmimic9.out
Reading model: C:\Users\pamel\Documents\ESS\MPLUS\mmimic9.out

Coefficient regression

