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**# Kenya FiscalSim - fiscal microsimulation model for Kenya.
* Prepared by EPL team (Mikhail Matytsin and Yared Seid)
* January 2023.
version 17
      clear all
      set more off
      macro drop all
      set linesize 200
      set type double, permanently
      /* Please change this to your own path */
      if (lower("`c(username)'") == "wb484182"){
                                                           // Yared's p
> ath
             qlobal path "C:\Users\wb484182\OneDrive - WBG\1ys EPL\1Projects\Keny
> a-2022FY-FiscalMicroSim\Assessments\FiscalMicrosim"
      else if (lower("`c(username)'") == ""){
             global path "" // PUT YOUR PATH HERE!!!
*_____
           *DO NOT MODIFY BEYOND THIS POINT
*_____
>
            **# Macros for folders, data names, etc
************
      /* Macros for key folders and excel tool */ global data "${path}\01.Data"
      global data
                    "${path}\02.Dofile"
      global theado
      global thedo
                    "${thedo}\ados"
      global xls tool "${path}\03.Tool\Kenya FiscalMicrosim.xlsx"
      ^{\prime \star} A folder where data sources used in the Microsim assessments are saved ^{\star \prime}
                                              "${data}\01.PreSimulationDat
      global preSimulationData
> a"
      /* A folder where intermediate data generated by Microsim tool are saved */ global simulationData "${data}\02.SimulationData"
      global simulationData
      /* A folder where final/output data generated by Microsim tool are saved */
                                              "${data}\03.PostSimulationDa
      global postSimulationData
> t.a"
      ***************
      /* Macros for prefix in data names, dofile names, etc */
                                display %tdCCYY-NN-DD date(c(current date),
      global dateStamp:
> "DMY")
      global countryName
                                "Kenya"
      global simulationName "FiscalMicrosim"
      /* Macros for suffix in pre-simulation data names, i.e., cleaned hh survey d
> ata used as an input in the microsim assessments which are saved in "01.Data\01.Pr
hhSurvey cleanedData dem inc
     // data "01 *"
      global cleanedSurveyData_exp
                                             hhSurvey_cleanedData_exp
      // data "02 *"
```

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*************
      /* Macros for suffix in simulation data names, i.e., those to be saved in "0
> 1.Data\02.SimulationData" and "01.Data\03.PostSimulationData" folders */
      /* Suffix for survey year (SY) data */
    global dem_inc_SY
// data "01_*"
                                       Demography Income SY
      global dem SY
                                       Demography SY
      // data "0\overline{2} *"
      global mkt_inc_SY
                                      Market Income SY
      // data "03 *"
>
      global exp \overline{S}Y
                                      Expenditure SY
      // data "0\overline{4} *"
      /* Suffix for policy year (PY) data */
      global dem PY
                                       Demography PY
      // data "0\overline{5} *"
>
      global mkt inc PY
                                      Market Income PY
      // data "0<del>6</del> *"
      global ssc_dir_tax_PY
                            SSC Direct Taxes PY
    // data "07 *"
>
      global pens_dir_trans_PY Pensions_Direct_Transfers_PY
                                                        // data "08
    global indir_tax_PY
// data "09_*"
                                   Indirect Taxes PY
      global indir_subcidy_PY
                               Indirect Subcidy PY
    // data "10 *"
      global in\overline{\mathtt{k}}ind trans PY
                               Inkind Transfers PY
    // data "11 *"
      /* Suffix for final output data which is saved in "01.Data\03.PostSimulation
> " -- data to be used for all microsim assessments reported in the excel tool */
      // d
      ***************
**# Adding ado directory at the beginning of the system's ado path
cap qui adopath++ "${theado}" // this is a folder where the project ado fi
> les are saved
**# Assigning gloabl macros to selected microsimm variables
wage entr_inc cap_inc rent_inc // ag
global market income
> ri inc other inc
global SSC
                                                    SIC
                                       PIT
global direct taxes
global pensions
                                             lab pens
global direct transfers
                                      priv trans govt trans oth pens /*soc
> pens unem ben child ben GMI other ben*/
                                      VAT dir VAT ind
global indirect taxes
global indirect subsidies
                                      utility subs dir utility subs ind
```

```
global health
                                                    health in health out
global education
                                                    educ prim educ sec educ tert
                                                    ind weight
                                                                // Misha - i
global weight
> nd_weight is also included in $dem_list below, why do we need to have it in 2 glob
> al macros?
global povline
                                                    povline nat povline nat food
> //povline int32 povline int55 // Misha - I added food pov line as well since we h
> ave it in the data // you may choose between a few available poverty lines (for ex
> ample, national and international)
global rank var
                                                    market income //choose betwe
> en market income and market plus pensions - this is equivalent for PGT and PDI sce
> narios to some extent
global dem list
                                                    hh size ind weight hh weight
> age relationship hh type strata1 strata2 strata3 county /* region / povline ;
global income list
                                            market income market pens income net
> market income gross income disposable income consumable income final income
global comp list
                                                    SSC direct taxes pensions di
> rect transfers indirect taxes indirect subsidies /*health education*/
*_____
              **# Running the do files
*-----
       * 0. Putting parametrs in excel to macros (needed for both pre-simulation an
> d simulation stages)
       do "${thedo}\00_xls_parameters.do"
       * 1. Pre-simulation stage (needs to be run only once to get the input data)
       do "${thedo}\01_input_data.do"
do "${thedo}\02_market_income.do"
       do "${thedo}\03 gross expenditures.do"
                                                   // for now I use exp EXAMPLE
  data
       * 2. Simulation stage (needs to be run for every scenario)
       do "${thedo}\04_uprating.do"
do "${thedo}\05_SSC_direct_taxes.do"
do "${thedo}\06_pensions_direct_transfers.do"
       do "${thedo}\07 indirect taxes.do"
       do "${thedo}\08 indirect subsidies.do"
       do "${thedo}\09 inkind transfers.do"
       do "${thedo}\10 income_concepts.do"
       * 3. Post-simulation stage (needs to be run for every scenario)
       do "${thedo}\11 output.do"
```

exit