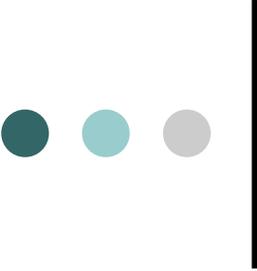


# Introduction to RunGTAP

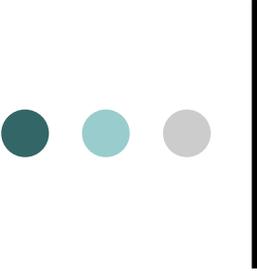
Hands-on computing and examining  
some data





# RunGTAP familiarisation

- Open by double-clicking on **RunGTAP** icon
- Click on the tabs:
  - **RunGTAP**
  - **Version**
  - **Closure, Shocks, Solve & Results**
    - Look at these later when setting up & solving a simulation
- On the Toolbar, click on '**version**'
  - Click on '**change**'
    - We can change to a new version e.g. using a different aggregation of the data



# Finding out about the data

In toolbar, click on '**version**' then '**change**'

Select **ACOR3X3**

Note the regions & sectors

Looking at some base data:

click on **View|Base Data|Core Data**

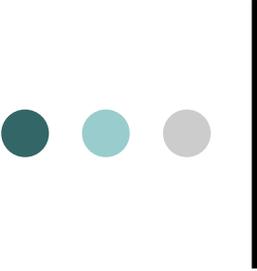
Double Click on '**VDPA**' *value of expenditure on domestic tradable commodities by private households in 1995 US\$million*

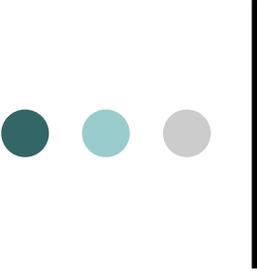
Double click on '**VDFM**'

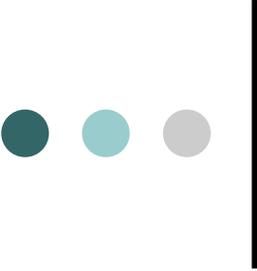
There are now 3 dimensions!

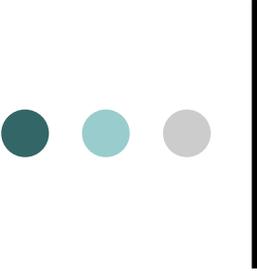
**VDFM(i,j,r)**

Make sure you are familiar with reading the indices correctly!!

- 
- What is the value of the EU's food sector's purchases of domestically-produced food?
  - What is the value of the SSA's MNFCS sector's purchases of domestically-produced food?
  - Now look at the variable **VIFM**
    - Definition?
    - What is the value of imported food purchases by the food sector in the EU?
  - What is the total purchases of food (at market prices) by the EU's food sector?

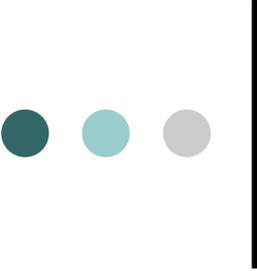
- 
- In GTAP, 5 factor endowments are modelled
    - Land (farm sectors only), skilled & unskilled labor, capital and natural resources.
  - Look at sector purchases of these:
    - **VFM**
    - What values of these resources are purchased (market prices) by the food sector in the EU?

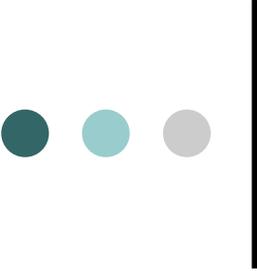
- 
- So we now know, for the food sector in the EU, the value of its purchases of food (domestic and imported), land, labour and capital.
  - We can get the same variables, but at agent's prices:
    - Look at **VDFA**, **VIFA**, and **EVFA**
  - Now write down total purchases of all inputs by this sector (including purchases of manufactured and services intermediates)
    - Can calculate cost shares



# GTAPView Data

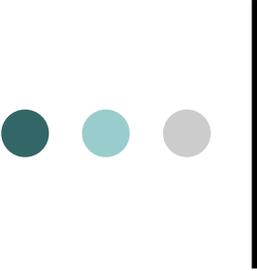
- Click on **View|Base Data|GTAPView Output**
- This contains variables that have been computed from some of the variables in Base Data.
- Look at **NFVA** (row 15)
  - This is the cost structure of firms at agents prices
- Go through the drop-down boxes
- Obtain values for the **EU**
- These are the same as our previous values from the Base Data
- Now in the drop-down box that reads '**None**', click on '**Col**'
- Now you see the cost structure (% shares) for the EU's food sector
- For example, note shares of food, unskilled and skilled labour.
- Note how the cost shares differ in the EU services sector

- 
- Still in GTAPView
    - Look at **GDPEXP**
    - Look at **CURRENTACCT**
  - Viewing SET information
  - Click on **View|Sets**
  - Look at
    - **TRAD\_COMM**
    - **REG**
    - **ENDW\_COMM**



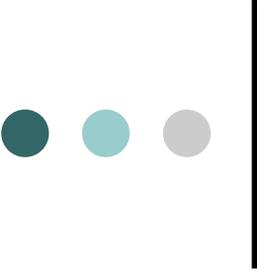
# Viewing parameter values

- For example, elasticities
- Click on **View|Parameters**
- Look at **ESUBVA**



# Where are these data?

- Click on **View|Other Text File**
- Basedata.har...the base data
- Default.prm.....the parameters
- Sets.har.....the sets information.
- These files are automatically created whenever you run an aggregation of the GTAP database



# The GTAP model file

- Click on **View|TAB files|Main Model**
- GTAP.TAB sets out the theory of the standard GTAP model.
- Note the version number and history.
- Scroll down until you see **FILES**
- GTAP gives the logical names of
  - **GTAPSETS**
  - **GTAPDATA**
  - **GTAPPARM**to the sets, data and parameter files
- We'll look at GTAP.TAB a lot more later.