



# Use of ICT tools -STATA- for Survey Data Analysis

*Nadi, Fiji*

*3-7 April 2017*

## Agenda

*(DRAFT as of March 22, 2017)*

### Monday 3

<b>09.00 – 10.30</b>	<b>Opening</b> 1a) Welcome Statements 1b) Self-introduction of participants 1c) Objectives of the course and approach  Installation of Stata Stata interface Menu-driven use of Stata Use of the command line
<b>10.30 – 11.00</b>	<b>Break</b>
<b>11.00 – 12:00</b>	Good practice for data analysis Programming in Stata: do files and the do-file editor Using Stata help files - Reading the syntax Writing and running a simple do file
<b>12.00 – 13.00</b>	<b>Lunch Break</b>
<b>13.00 – 15.00</b>	The structure of Stata data files Inspecting your data files: <ul style="list-style-type: none"><li>- Content description</li><li>- Summary statistics</li><li>- Codebook</li></ul> Use of sample weights Producing simple tables
<b>15.00 – 15.30</b>	<b>Break</b>
<b>15.30 – 16.30</b>	Key variables Sorting and ordering data files Merging data files Saving and exporting Stata data files
<b>16.30 – 17.00</b>	Daily wrap-up, questions and answers

## Tuesday 4

<b>09.00 – 10.30</b>	Generating new variables <ul style="list-style-type: none"><li>- Command generate</li><li>- Command egen</li><li>- Command replace</li></ul> The importance of metadata Adding variable and value labels
<b>10.30 – 11.00</b>	<b>Break</b>
<b>11.00 – 12:00</b>	Merging and appending data files Sub-setting data files (variables and observations)
<b>12.00 – 13.00</b>	<b>Lunch Break</b>
<b>13.00 – 15.00</b>	More operations on variables <ul style="list-style-type: none"><li>- Recoding</li><li>- Encoding</li><li>- Renaming</li></ul> Programming tips <ul style="list-style-type: none"><li>- System variable <code>_n</code> and <code>_N</code> and missing values</li><li>- The use of functions, <code>inlist</code>, <code>inrange</code>, and others</li><li>- Logging your output</li><li>- Others</li></ul>
<b>15.00 – 15.30</b>	<b>Break</b>
<b>15.30 – 16.30</b>	Generating simple graphs
<b>16.30 – 17.00</b>	Daily wrap-up, questions and answers

## Wednesday 5

<b>09.00 – 10.30</b>	Application of Stata commands to check the quality of data <ul style="list-style-type: none"><li>- Consistency and range checks</li><li>- Finding duplicates</li><li>- Listing errors</li><li>- Production of charts to detect outliers</li><li>- Counting missing values</li></ul>
<b>10.30 – 11.00</b>	<b>Break</b>
<b>11.00 – 12:00</b>	Producing tables using Stata commands <ul style="list-style-type: none"><li>- Cross tables</li><li>- Tables of summary statistics</li></ul>
<b>12.00 – 13.00</b>	<b>Lunch Break</b>
<b>13.00 – 15.00</b>	ADO files: user-contributed packages <ul style="list-style-type: none"><li>- Where and how to find ado files?</li><li>- Installing ado files</li><li>- Example: poverty and inequality analysis</li></ul>
<b>15.00 – 15.30</b>	<b>Break</b>
<b>15.30 – 16.30</b>	Collapsing data files
<b>16.30 – 17.00</b>	Daily wrap-up, questions and answers

## Thursday 6

<b>09.00 – 10.30</b>	Importing data files from CSV or Excel Reading values from Excel sheets Exporting results to Excel
<b>10.30 – 11.00</b>	<b>Break</b>
<b>11.00 – 12.00</b>	Practice: writing do files (with introduction of additional Stata commands)
<b>12.00 – 13.00</b>	<b>Lunch Break</b>
<b>13.00 – 15.00</b>	Data analysis: regression models <ul style="list-style-type: none"><li>- Linear regression</li><li>- Logistic regression</li></ul>
<b>15.00 – 15.30</b>	<b>Break</b>
<b>15.30 – 16.30</b>	Practice: writing do files (with introduction of additional Stata commands)
<b>16.30 – 17.00</b>	Daily wrap-up, questions and answers

## Friday 7

<b>09.00 – 10.30</b>	Practice: writing do files (with introduction of additional Stata commands)
<b>10.30 – 11.00</b>	<b>Break</b>
<b>11.00 – 12.00</b>	Wrap-up, questions and answers  <b>Closing</b>
<b>12.00 – 13.00</b>	<b>Lunch</b>