

Introduction to the Timor Leste Living Standards Survey (TLSLS)

Training Workshop on the
Commitment to Equity Methodology
CEQ Institute, Asian Development Bank,
and The Ministry of Finance

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About Household Surveys

- How GDE carries them out
 - draw a random sample of households
 - stratified by populations of interest
 - clustered, for economy
 - ask them a lot of questions
 - see the questionnaire
- *Why* GDE carries them out
 - useful to establish consumption patterns to establish weights for the consumer price index
 - useful to estimate (or describe) the distribution of income and/or consumption in Timor Leste
 - poverty
 - inequality
 - keeps researchers busy

About TLSLS

- How the data are structured
 - Many files (look at subdirectories)
 - More or less follow the structure of the questionnaire
 - Some are “household-level” data
 - one record per household
 - Some are individual-level, and some are community-level
- Skip patterns and missing values
 - look at section 4, part A, for example
 - Stata does not behave well with missing values, so be careful!

About Sampling and Sampling Weights

- Not every observation in the GLSS is equally valuable
 - urban areas are “over-sampled” because it is easy to interview there
 - there could be other over-sampled groups
 - for example, a small ethnic minority
 - Oecussi
- Because it is more likely that an urban household is chosen for the sample, it gets *less* weight than a rural one
- Intuition: the rural households selected must “represent” more households than the urban households selected
- A simple example

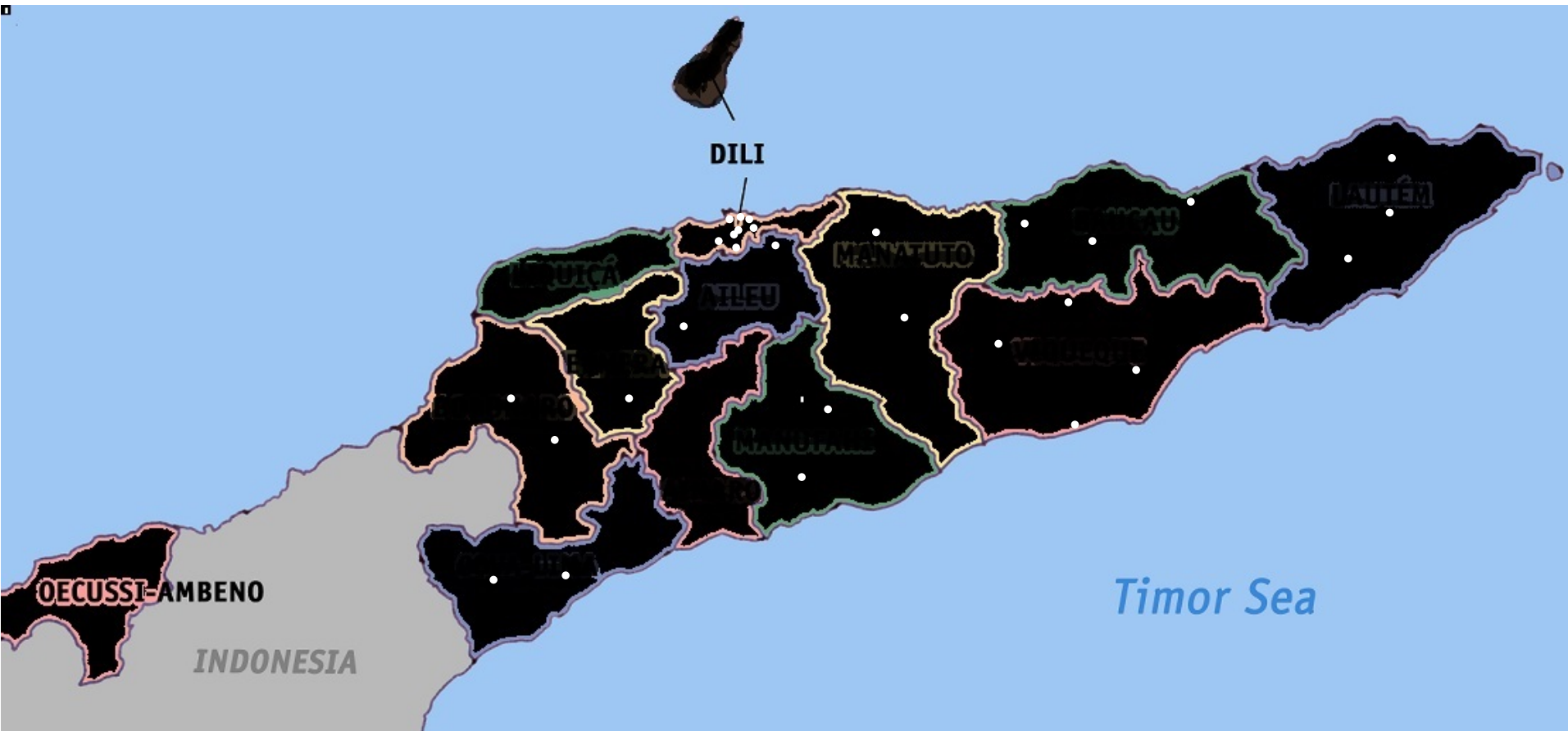
Simple Example of Sampling Weights

Person	Area	Income	Sampled?	Sample Income	Probability of Selection	Sampling Weight
1	Urban	100	Yes	100	0.5	2
2	Urban	300	No			
3	Urban	200	No			
4	Urban	400	Yes	400	0.5	2
5	Rural	50	No			
6	Rural	100	No			
7	Rural	20	No			
8	Rural	30	No			
9	Rural	40	Yes	40	0.33	3
10	Rural	60	Yes	60	0.33	3
		True Average of Income		Unweighted Estimate, Average Income	Weighted Estimate	
	Average:	130		150	130	

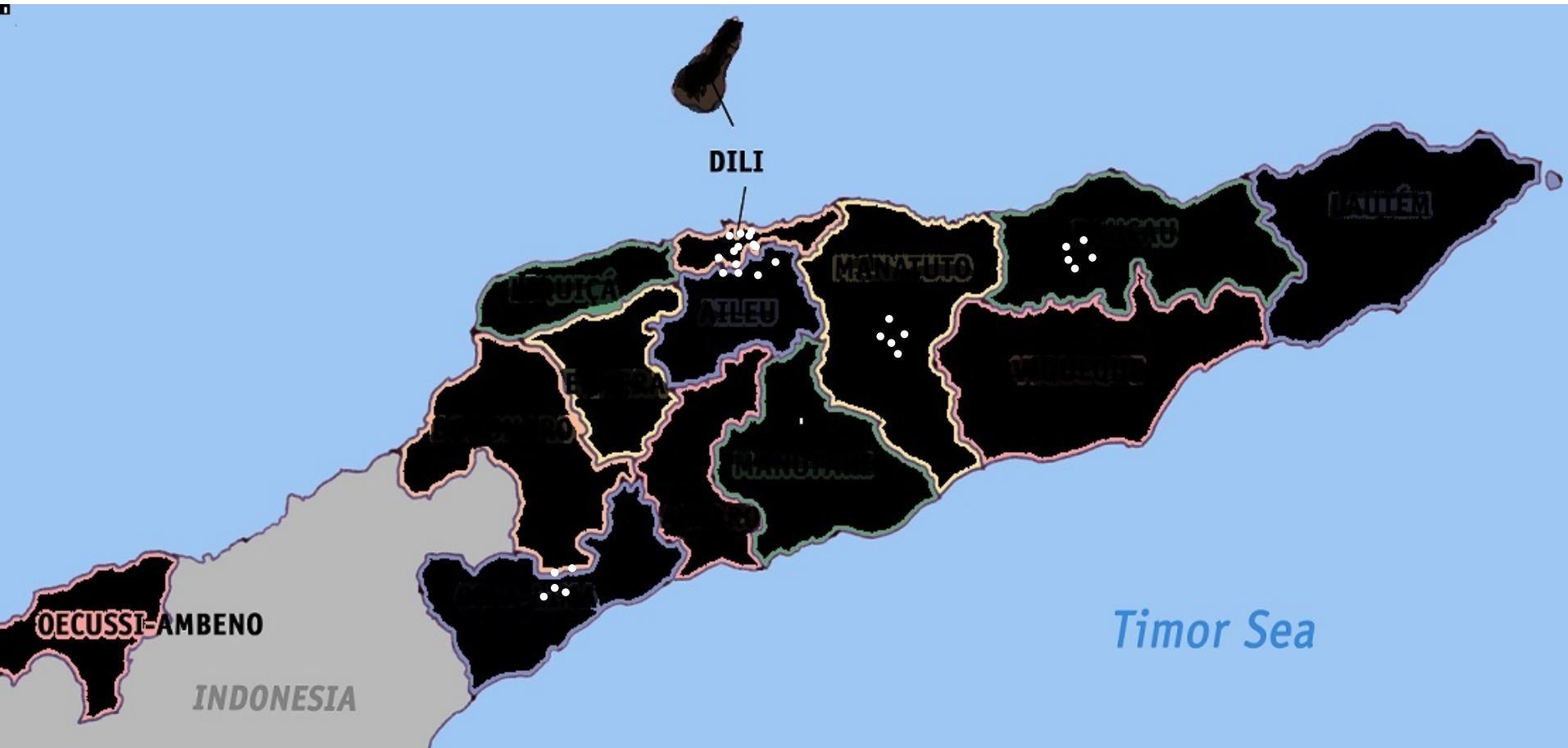
About Clustering and Stratification

- Random sampling of households vs. random sampling of clusters of households
 - see following graphics

Randomly drawn households



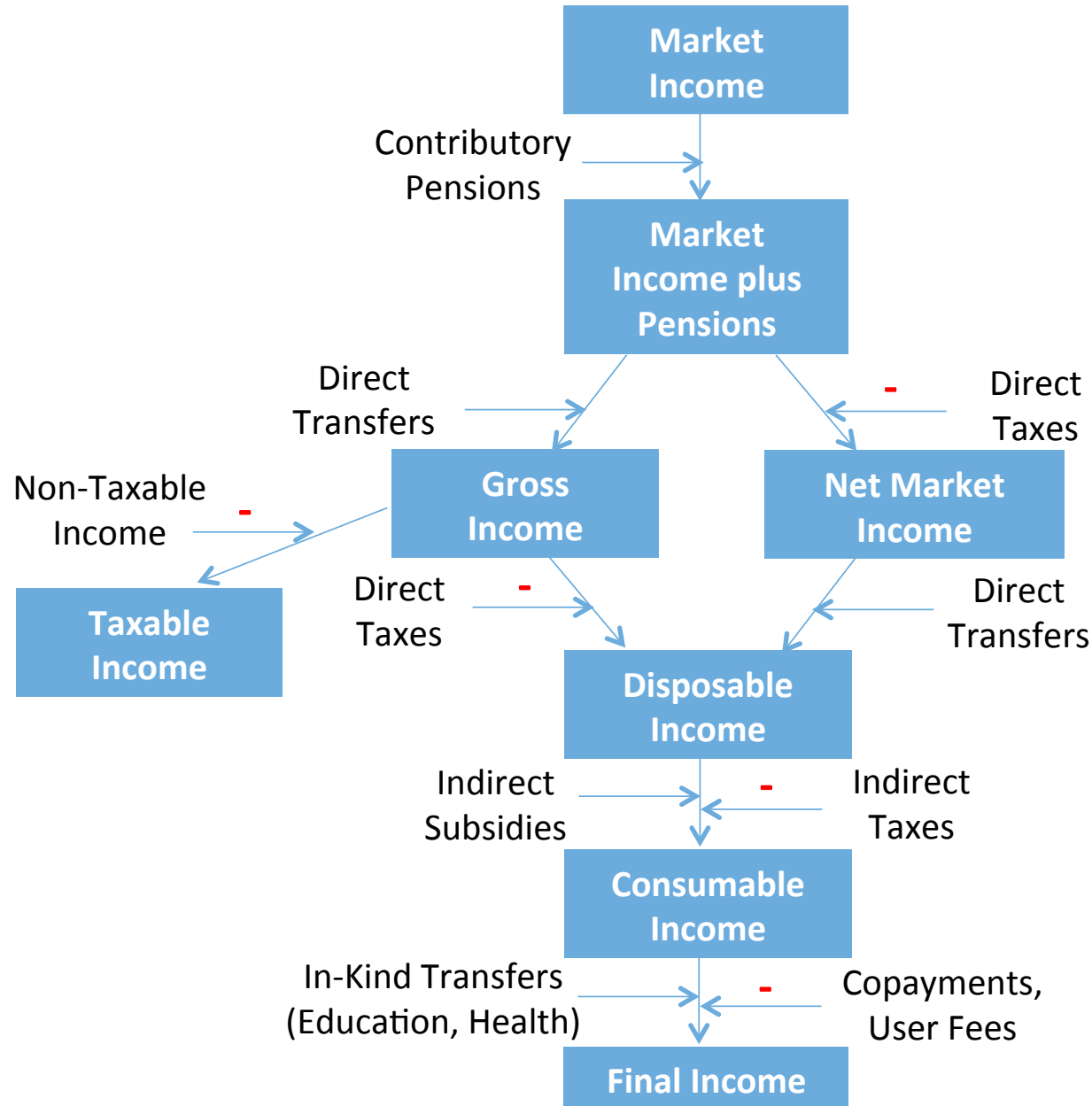
Randomly drawn *clusters* of households
(census enumeration areas)



About Clustering and Stratification

- Clustering tends to increase the standard errors of things we estimate with survey data
 - households near each other are more similar to each other than they are to other households
 - reduces the variation in the sample
- Stratification can reduce the standard errors, but usually does not in TLSLS-type surveys
- Stata has very easy-to-use commands to take these things into account

What Does TLSLS Have for CEQ?



How Do We Go About the Analysis?

- We must dig up all the information we can about these income concepts and their components from TLSLS
- We must clean it up and save it in one dataset
- We can then apply pre-programmed commands to do much of the statistical work
- We must cross-check our results against administrative data whenever possible