

Advancing Methodology on Measuring Asset Ownership from a Gender Perspective



*Sampling Design issues specific to
measuring asset ownership from a
gender perspective*

- Sampling issues in the guidelines
- General and EDGE-specific sampling issues
- Examples from the ADB pilot
- Sampling calculation tool on EDGE website:
interactive playground

Items covered in the guidelines

- General principles in sampling
 - Target population
 - Sampling frame
 - Sample size determination
 - Structure of the sample (stratification, cluster)
- Selecting individuals from households
 - Calculation of sample size, cost etc



- Stand-alone survey or appended module?
 - Stand-alone survey implies all sampling issues considered
 - For an appended module intra-household selection is still a specific issue
- Which estimates do we try to obtain?
 - Ownership-related indicators (incidence, wealth measures, etc.)
 - Intra-household analysis dynamics
 - Indicators vis-à-vis agricultural population

- Which types of disaggregation are important?
 - Women/men
 - Age groups
 - Regions
 - Socio-economic variables (marital status, education, employment, etc.)

- Where do we obtain data on parameters?
 - Gender and sex distribution, other demographic variables – relatively easy to obtain (censuses, current demographic statistics, registers)
 - Design effect -> Rate of intra-cluster homogeneity: more difficult to obtain, especially if the survey is conducted for the first time. Taking proxies from other surveys.

- Valid for stand-alone surveys and modules
- How many do we interview?
 - All adult members – no worries for selection mechanisms, possible problems with refusal-related biases and need for post-stratification
 - One adult per household
 - A few members (e.g. three adults)
- Who are the respondent(s)?
 - Most informed, woman/man only, random

Whom to interview – different options

Approach 1: interview 1
adult member randomly
from each household

Approach 2: interview more than
1 adult member from each
household

Interview
all
household
members

Interview 1 couple
randomly from couples
in the household; and 1
randomly selected
individual from the
non-coupled household
members

Interview 1
person
randomly
selected from
each household
+ the partner if
available

Interview more
than 1 (fixed
number)
individuals
randomly selected
from the
household

How many/whom to interview within household – factors to consider

- Objectives
 - Ownership prevalence & gender wealth gap
 - Intra-couple analysis
- Data collection instrument
 - Appending: sample size and interview protocol of the host survey
- Operational challenges
 - Random selection: Kish, birthday methods
 - Contamination
 - Reporting discrepancies → reconciliation



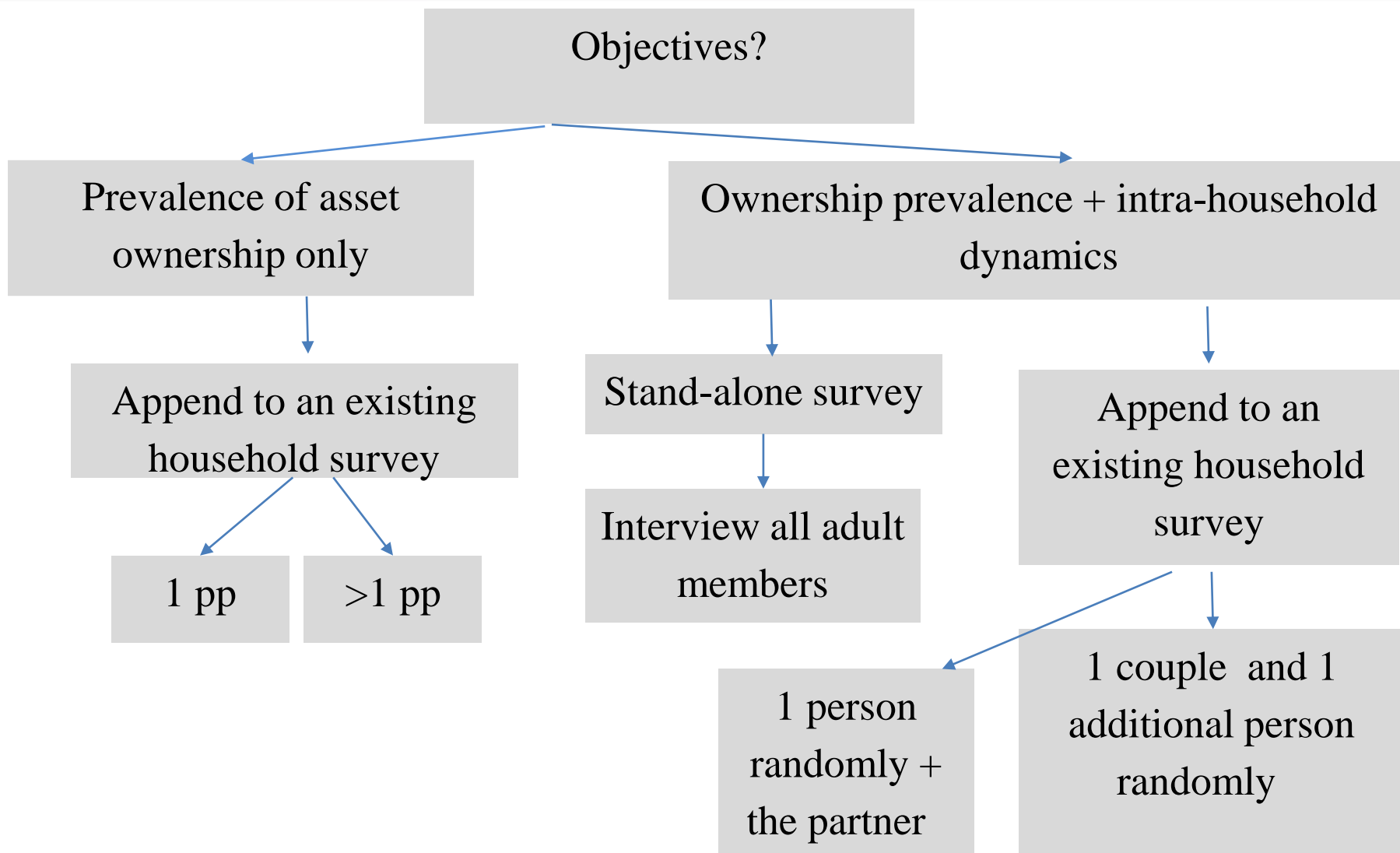
How many/whom to interview within household – factors to consider (cont.)

- Cost considerations
 - Prevalence of key indicators
 - Precision requirement
 - Design effect
 - Non-response rate

Objective



Recommendations: whom to interview



Some sampling concepts

- Number of **adults selected per household**
- **Estimated prevalence** (of ownership)
- **Cluster size** (# of hhs per cluster) - b
- **Average number of adult members** in a household
- **Design effect:**

$$Deff = 1 + (b - 1) * roh$$

- **Intra-cluster homogeneity rate (roh):** measure of correlation between elements within the cluster
- Required **coefficient of variation (cv):** precision of the estimate measured as $se(x)/\bar{x}$ (standard error of x divided by \bar{x}).

Thank you

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