Testing Savings Product Innovations Using an Experimental Methodology

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Foreword

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Abstract

This paper advocates a rigorous, scientific approach to the evaluation of innovations in micro-savings products. Such rigorous, randomized evaluations can help microfinance institutions (MFIs) have a clearer sense of why certain products are successful while others are not, and can help researchers and policymakers investigate the mechanisms and incentives involved with successful savings mobilization. However, randomized evaluation designs are not for all MFIs, as they involve a large degree of planning and resources. Furthermore, although product design matters, many other issues (such as organizational capacity, internal controls, accounting systems and regulatory environment) matter greatly for the success of a savings program. This paper describes what is involved in carrying out a randomized evaluation design once a savings product has been developed, and how to design and implement appropriate survey instruments to analyze accurately the welfare impact of savings innovations. The paper is intended to serve as a technical guide for the use by administrators of MFI’s, and by collaborative external agency staff sharing an interest in micro-savings product development.
I. INTRODUCTION

The pressure to develop viable financial products relevant to target markets has coincided with the rapid trend in the microfinance industry for self-sufficiency. Determining the net benefits of a product requires careful analysis of the institutional costs and benefits. From a policy perspective, the potential benefits of a product are rarely limited to the narrowly defined benefits of increased account balances. A financial product may impact a client in a broad range of economic behavior: it may induce changes to a client's propensity to save, to her investment behavior, and to the intrahousehold allocation of her household's resources. A full analysis of a financial product from a policymaker's perspective considers these broad economic impacts, of which internal benefit to the microfinance institution (MFI) is but one. This paper provides a detailed operational guide to assessing the broader impacts of a new financial product using experimental methodologies.

Although this paper focuses on randomized control evaluations that include extensive household surveys, one should not infer from this that such surveys are necessary for successful research and product innovation. On the contrary, surveys could be considered a luxury of the researcher with the resources, and of the policymaker with the desire to know the full impact of a product on household welfare. A financial institution keen to understand the viability, sustainability, and profitability of a given product need not collect such data, but rather should focus on administrative data (i.e., savings account balances) as the primary outcomes of interest.

To assess broader impacts, however, significant effort must be spent in gathering original data on a new product's effects; existing data are inadequate for assessing the impacts of a financial product that has not existed or been tested before. The approach we advocate in gathering such data and carrying out product evaluation is neither cheap nor fast; it does, however, lead to more accurate evaluations, purged of the biases that plague most evaluations of microfinance products. Much of this guide focuses on how to design and carry out product evaluations so as to avoid such biases through randomization, appropriate survey sampling, questionnaire design, and data collection. The last part of the article addresses data analysis and evaluation.

Randomized control evaluations of new products, whether they include extensive household surveys or not, are not appropriate for each and every microfinance institution. An MFI must be dedicated to the process in order for the research to yield reliable results. There is a clear role both for collaboration with research institutions and for public subsidies to test new product designs, so that other nonsubsidized organizations can then free-ride on the knowledge created through the rigorous, randomized pilot phase evaluation.

Throughout this article, the authors refer to a case study in the Philippines (Box 1). In 2002, the authors began a research project with the Green Bank of Caraga in Mindanao to examine the effectiveness of savings products with built-in commitment features. It is hoped that reference to this project will help clarify the steps for product implementation and assessment. Furthermore, it is hoped that this example may motivate similar endeavors elsewhere that aim to assess the broader impacts of financial products.
II. BEFORE THE EVALUATION: PRODUCT INNOVATION

There are four stages to developing and testing an innovative savings product:

(i) Idea Generation: different pieces of information converge and point to client demand for a new savings product.

(ii) Development of Product Concept: an institution studies the market more comprehensive-
ly, designs a prototype based on the findings, estimates the cost of providing such a product, and evaluates its institutional capacity for offering such a product (Box 2).

(iii) Pilot Test & Evaluation: the institution and its research collaborators implement a pilot test, which tests the market's acceptance of the prototype, as well as the functioning of the institution's systems in providing it. This trial run includes the elements necessary for evaluating the impact of the product, by randomizing interested clients into three groups: treatment, marketing only, and control. The feedback from these processes allows planners to perfect the product and systems, and to develop a marketing/promotion strategy for launching to a wider audience. Before the product is tested in this stage, a baseline survey of all three groups is carried out to assess baseline indicators of interest. Once the pilot test is complete, a follow-up survey is carried out and progress on the indicators is compared among groups.

(iv) Product Launching: the product is offered on a much wider scale.

Appendix I describes Stages 1 and 2 in more detail, for interested microfinance professionals. These stages involve carrying out focus groups, in-depth interviews, and a market survey to assess demand and supply for a new product. These are the stages at which data is gathered to assess client needs and current habits, in order to develop an appropriate savings product. Once the product is developed, the emphasis turns to gathering data on baseline measures of welfare for those who will be participating in the product trial, in order to evaluate impact.

The rest of the paper is dedicated to this evaluation of impact of a new product, after Stages 1 and 2 have been completed. Such evaluation involves a rigorous research process. MFIs often

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**Box 1: Philippines Savings Project—General Description**

The authors are working with a rural bank in the Philippines to offer market-driven innovative savings devices with commitment features. The project employs a rigorous experimental research design, with random assignment to treatment and control groups, in order to draw robust policy conclusions about the potential implications for expansion of these client-responsive products on overall economic outcomes for poor, rural Filipinos. We will collect a full set of outcome variables so that we can measure not only changes in savings at the rural bank, but also changes in aggregate household savings in both formal and informal vehicles. Furthermore, we will collect consumption and investment data so that we can observe how additional savings were or were not used. Lastly, we will conduct in-depth analysis of who decides to take up the commitment savings products so that we can try to disentangle competing theories of savings behavior.

We will be implementing a combination of two products: a Lock Box Plan and a Set Aside Plan. The Lock Box Plan is a simple idea in which a participant is given a lock box to which the bank has the key. The participant uses the lock box to deposit small amounts of cash on a daily basis, and then every 1-2 weeks deposits the lock box content into the bank. The Set Aside Plan allows the client to define a certain percentage of all deposits to be set aside into a separate account that cannot be withdrawn until predefined events (i.e., planting season, tuition due dates, etc.), once a certain amount has been saved, or even at free will. In its most flexible form, withdrawals at free will, this product becomes a direct test of whether mental accounting heuristics, without any binding commitment, can help people save more.
implement innovative new products without adequate testing and evaluation (see Matin 2002 for examples), which make it difficult both for the MFI to systematically learn what aspects of the innovation worked and what did not, and for the microfinance industry to further its knowledge about which savings products help increase savings. This paper is focused, in particular, on how to carry out evaluations in a way that can further overall knowledge about how people save and how to increase savings among the poor.

Box 2: Philippines Savings Project—Product Development

Product development was a collaborative process between the authors and several MFIs in the Philippines. The process consisted of several initial consultations between coordinators of MFIs and researchers on up to 10 possible new savings products, based both on implications of economic theory and on anecdotal evidence from the field on what worked in the informal sector. These were narrowed down to four or five possible products, which were then pre-tested among focus groups of clients from several MFIs throughout the country. This focus group work was supplemented with consultations with the MFI staff, in-depth interviews with clients, and, eventually, with market surveys carried out in three main regions. These market surveys had two aspects: the first consisted of understanding supply of existing savings products in the market and the second consisted of assessing demand for new savings products among potential clients (see Appendix 1 for more details on these market surveys). On the basis of results from all of these sources, the researchers developed the two products described in Box 1, and selected an appropriate MFI to implement the pilot. The evaluation stage was ready to begin.

III. PRODUCT EVALUATION: RANDOMIZED CONTROL EXPERIMENTAL DESIGN

Most evaluations carried out on microfinance products and projects are vulnerable to multiple criticisms: if they only evaluate clients of the project after implementation, they do not have a proper baseline to evaluate changes against. If they evaluate based on a baseline and a follow-up survey of clients, they do not have a proper control group to demonstrate what would have occurred in absence of the project. Even if they have a control group and a project group, and gather data from both groups at the baseline level and again as a follow-up, they are vulnerable to the criticism of selection bias, i.e., any changes observed in the project/treatment group could be due to unobservable attributes (ambition, business acumen), which led people in the treatment group to take part in, or select into, the project in the first place. (See Angrist et al. 2002, Duflo and Saez 2003, Miguel and Kremer 2001, Kremer 2003, and Glewwe et al. 2000 for sample evaluations of social projects using randomized methodologies. Guides on randomized evaluation are also available in Boruch 1996, Meyer 1995, Angrist and Krueger 2001, and MDRC 2001.)

Randomization aims to eliminate this selection problem when carrying out an evaluation. Since we do not observe certain characteristics that may affect our outcome (savings), it is impossible to select a control group of nonparticipants and know that they are indeed a valid control group. Randomization solves this problem. Since people are randomly assigned into treatment or control groups there is no reason to believe that the groups, on average, should have systematically different savings preferences.

Imagine an MFI that wants to evaluate the impact of a time deposit on client savings. If it were just to compare savings of clients with time deposits to those without it, it could not definitively say whether any differences were due to the time deposit itself or to individual character and desire to save: it is very possible that those clients with a higher propensity to save are the ones who use time deposit products and it is this higher propensity to save—and not the product—that is responsible for any higher savings the MFI might see. Now imagine that we randomly select participation into treat-
Box 3: Randomized Evaluation in Social Science Research

Random assignment is increasingly being used to evaluate social programs, and a growing literature in the social sciences documents and analyzes such “social experiments.” A list of references of rigorous research based on randomized evaluations of social programs carried out in both developed and developing countries, as well as more detailed guides for carrying out such research, are provided in the bibliography of this paper. In this box, we highlight two such evaluations that have been published in top-tier economics journals: one based on a housing mobility program in the US and the second based on a school deworming project carried out in Kenya.

Paper 1: “Moving to Opportunity in Boston” (Katz et al. 2001)

Program Evaluated: The Moving to Opportunity (MTO) program. Eligibility for a housing voucher, which allowed a low-income family to change their residential neighborhood, was determined by random lottery.

Randomization Scheme: Applicants in high poverty public housing projects were assigned by lottery to one of three groups: the Experimental group, which offered mobility counseling and a voucher valid only in a low-poverty Census tract; the Section 8 Comparison group, which offered a geographically unrestricted voucher; or the Control group, which offered no new assistance, but continued eligibility for public housing.

Evaluation Outcomes: Households in both treatment groups experienced improvements in multiple measures of well-being relative to the Control group including increased safety, improved health among household heads, and fewer behavior problems among boys. There were no significant short-run impacts of either MTO treatment on employment, earnings, or welfare receipt. Experimental group children were less likely to be personally victimized by crime, to be injured, or to experience an asthma attack.

Paper 2: “Worms: Identifying Impacts on Education and Health in the Presence of Treatment Externalities” (Miguel and Kremer, forthcoming)

Program Evaluated: The Primary School De-worming Project (PSDP), which provided medical treatment for intestinal worms (helminths) and schistosomiasis to 30,000 children in 75 primary schools in rural Busia district, Kenya. The project has been ongoing since January 1998.

Randomization Scheme: The program randomly divided the schools into three groups, each group consisting of 25 primary schools. Treatment in the schools was done as follows: 25 Group 1 schools began receiving treatment in 1998; 25 Group 2 schools began receiving treatment in 1999; and 25 Group 3 schools began receiving treatment in 2000.

Evaluation Outcomes: The randomized order of deworming treatment phase-in allowed the authors to isolate the impact of deworming from other factors that might affect child health and education. By comparing outcomes in the three groups of schools, which were phased into deworming in different years, the authors find that the deworming treatment in Group 1 and Group 2 schools in 1998-1999 substantially improved student attendance and health. The program also had significant “spillover” effects, improving health outcomes and attendance among students in neighboring primary schools:

(i) Pupils that received treatment reported being sick significantly less often, had lower rates of severe anemia, and showed substantial height gains.

(ii) When younger children (Standards 1-4) were de-wormed, they attended school 15 more days per year, while older children attended approximately 10 more school days per year.

(iii) The entire community and those living up to 6 kilometers away from the treatment schools benefited from de-worming through a phenomenon known as “spillover”. Spillover effects occur because medical treatment reduces transmission of worm larvae (eggs) to other community members. Spillover effects allowed pupils of neighboring schools to attend school an average of 3-4 additional days per year.

*There have been several microsavings innovations that have enjoyed in-depth research, including SafeSave, MicroSave, and Bank Rakyat Indonesia’s microbanking system (examined insightfully in Robinson 2002). As our focus here, however, is on using a prospective, randomized design to evaluate innovations, we have not detailed other types of research done on microsavings innovations.
ment and control groups. Randomizing ensures that both the treatment and control groups contain individuals with similar (but unobservable) desires and propensities to save, in theory. Naturally, if few people are in the study, the ability to induce the same distribution of characteristics across treatment and control groups becomes more limited, in practice. To achieve a better randomization, one needs more participants. This increases the cost of the study. See Box 4 for the randomization scheme used in the Philippine savings project.

Quasi-experimental techniques also have risen in popularity. Fundamentally, quasi-experimental techniques try to observe the unobservable mentioned above. This has proven effective in some settings, but not in others. When it is easy to predict who will or will not take up a given service, then quasi-experimental techniques can work. Microcredit and microsavings behavior, unfortunately, are quite difficult to predict. In some cases, quasi-experimental designs can be combined with experimental designs. This requires additional resources (because it requires the creation of a nonrandom control group as well as a random control group) but provides a unique opportunity to assess whether or not the “unobservable” characteristics that drive the take-up decision do in fact lead to biased results. If they do not, then this opens up many possibilities for research designs that are easier to conduct. Microcredit by its very nature, however, relies on entrepreneurial spirit to succeed, and this is indeed a concept difficult to observe.

A. Internal Controls and Contamination

Randomization often requires controlling who is allowed to take up a product. This means that some individuals desire the new product but are prohibited from being offered it due to the research design. Weaker experimental designs, such as “encouragement” designs, do not require this type of restriction. An encouragement design works by “encouraging” some people to take up a service, and not others, but allowing anyone to take up. If the encouragement is very effective, and hence produces a large difference in take up between those “encouraged” and those not, then statistical conclusions can be drawn. Typically, however, such strategies only work if the sample size is quite large and the encouragement is quite powerful.

In some cases, contamination can and should be embraced. If one wants to know how benefits spill over from treatment to control groups, then collecting information on relationships and likely paths of transmission of benefits can shed insight into this. In many cases, this can be thought of as a positive externality, hence any cost-benefit analysis should take this into account. As an example, the deworming project conducted in Kenya (see Box 3) did not pass a cost-benefit analysis until the benefits that accrue to peers of the treated were included in the analysis. This spillover to the control group allowed for a more complete analysis of the benefits, and dramatically changed the final conclusion of the research. The link for savings is less direct, but exists nonetheless. If one person learns to save more, do they teach others about their new approach to finance?

B. Unit of Observation

The unit of randomization is an important decision. If a program is large enough, one could plausibly randomize over villages or counties and measure impact of a program on communities. Randomization at finer levels (at the finest, the randomization is done over individuals) can lead to increasing logistical costs and internal controls. Marketing, management, and information systems (MIS), and monitoring costs may all be more expensive and labor-intensive for, say, individual-level randomization than for a more coarse level of randomization, where, for example, towns, districts or other geographical demarcations are grouped into control and treatment categories.

However, there is a clear tradeoff here: randomizing only across broad groups (such as villag-
es, towns, or schools), subjects the evaluation to biases from correlated shocks. If certain villages in the treatment group were, for some reason, subject to negative shocks during the evaluation period, then it will be difficult to assess whether subjects in those villages did poorly due to the product or due to the shocks they had received. There would need to be enough villages in the sample in order to ensure that such shocks balance out between treatment and control villages, and are not systematically associated with either.

C. Sample Frame

Who should be included in the study: new clients or existing clients? The response affects the question that can be answered. If only existing clients are included, then one can ask what the impact is of offering an additional product to existing clients, but not what the impact is of offering the savings product to the general public. The latter is a more interesting question to ask, typically. However, there is a tradeoff: marketing to existing clients is much simpler, so if sample size is limited or client trust is important in the take-up decision, working with existing clients is advisable. In our study with the Green Bank of Caraga in the Philippines, we opted for working with existing clients only in order to ensure a high enough take-up rate to conduct the necessary statistical analysis.

D. Timing and Duration of Study

Ideally, the baseline survey will be conducted prior to the implementation (marketing or first offering) of the product. Otherwise, the product already will affect the savings behavior so that no accurate data can be gathered on savings behavior prior to treatment. This is particularly true of attitude questions, such as asking individuals about their satisfaction with their savings plans.
The duration of the study can be defined by the time that elapses between the baseline survey and the follow-up survey. The important consideration here is whether the existence of cyclical, well-defined time-varying behavior of individuals affects the analysis. In most cases, savings, business investment, agricultural investment, leisure expenses, and even intrahousehold allocation, fluctuates according to cyclical patterns. This would not be a problem in either a cross-sectional or a panel analysis if cycles were identical for all individuals. If there exist variations in cyclical behavior across individuals, then problems may arise. Economic impact of the new product may falsely attribute behavioral changes due to variation in cyclical behavior to the effect of the new product. This problem is again solved in theory by randomization: variation in cyclical behavior would not differ for treatment and control groups if chosen randomly. However, the influence of cyclical behavior on economic issues is so great that one would be well advised to insist on precaution beyond randomization. It is suggested that any follow-up survey be done in intervals of a year subsequent to the baseline analysis, so as to observe the individual at the same point within the year.

IV. BASELINE AND FOLLOW-UP SURVEY

This section discusses the decision to conduct a baseline survey and the process for designing and implementing it. Much more extensive volumes have been written on this; we merely provide an overview of some of the main issues. As mentioned earlier, a randomized control experimental evaluation does not require a household survey. The primary outcome of interest, both to policymakers and to the financial institutions, should be the savings held at that financial institution. A project with limited resources could and should decide to forego the survey instrument and instead focus strictly on the administrative data. Projects with more resources can and should, however, ask the important questions, such as impact on household welfare, which the full survey allows one to answer.

The motivation behind the baseline and follow-up surveys is to assess the broader economic impact of a new product. In theory, the randomization of the treatment should allow the post intervention survey alone to form adequately similar treatment and control groups. However, performing a baseline study is beneficial in many ways. A baseline survey allows the researcher to control for relevant observable characteristics that randomization did not adequately and evenly distribute across experimental group assignment. This is more of a concern when working with a small sample or when there are many dimensions over which one wants to conduct analysis (gender, age, occupation, marital status, etc.).

Furthermore, the baseline survey allows one to examine the characteristics that determine take-up of the product (if in the treatment group). This can provide useful information for marketing purposes and future product innovation. As an example, if only married women want the product, then marketing should be focused on them, or if only salaried employees seem to want the product, then perhaps partnerships should be formed with large employers to promote the product.

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1For more detailed information on designing a household survey on various measures and several sample modules, please see Grosh and Glewwe (2000).
A. Designing the Survey

There are five main steps to designing a survey1: (i) defining the fundamental objective of the survey; (ii) choosing which modules to include in the survey, the objectives of each of these modules, and approximate length of each module; (iii) deciding on each question within each module in light of that module’s objective; (iv) integrating the modules into a draft questionnaire and translating it, if needed; and (v) field testing the questionnaire. Designing and testing the survey should be a joint venture between the researchers and the agency implementing the survey, in consultation with local policymakers and MFI staff. Each party brings a unique perspective that needs to be taken into account in order to address the local context and culture, and to make sure the most relevant outcomes are included. A survey design process that includes all parties also minimizes any possible misunderstanding or mismeasurement of each question in the survey.

The fundamental objective of a survey that is going to evaluate a savings product is to provide baseline (pre-treatment) and updated (post-treatment) measures of the economic characteristics (or “outcome variables”) that are most likely to be affected by the new product. There is little reason to gather costly data on characteristics that are not likely to change over the duration of the study as a result of the product, unless one wants to analyze the impact of the product on subgroups of clients (e.g., gender will not change, but we care about gender because we want to know whether the product works better for men or women). At the most basic level, we want to use the survey to assess whether a new product increases savings overall (not just in the bank account balances).2 This requires detailed modules investigating the financial, agricultural, and enterprise assets of each participant. Gathering data on financial assets alone is inadequate because individuals store wealth in physical assets. Such items take the form of household utility or leisure goods, as well as enterprise assets. Indeed, it is plausible that while features of the new financial product are desirable and lead to increased account holdings, overall savings is unchanged as the client liquidates physical assets. For predicting take-up, it is imperative to have accurate measures of income and expenditure flows, demographic characteristics, and measures of savings preferences.

Before discussing the separate modules of the survey, a final general point must be addressed: establishing the unit of observation. If the product is targeted for an individual, then the fundamental unit of observation is the individual. Yet clearly, financial savings and borrowing is rarely an individual enterprise, especially when shared physical assets and financial obligations are considered. It is likely that there exists substantial overlap between the client’s activities, and all the activities of the household, even if the interviewee does not have direct control over certain activities, but merely provides for them. A trade-off must be made between gathering data on all activities and holdings that the respondent and their increased savings may influence, and the cost of the survey. A careful selection of which household-level activities are most relevant to the assessment of the product must also be made with cost considerations. For all the modules discussed below, see Appendix 2 for sample modules taken from the Philippines project baseline survey. This survey can and should be modified for other projects, as each project implementation has its own relevant and appropriate variables.3

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1As mentioned above, we want to ascertain whether a product has an overall welfare gain for the client, allowing them to save more in general, and has not just served to transfer money from one place to another.
2For more detailed and varied modules (including modules on consumption, other forms of income, and various other measures) that can be adapted for specific needs, see Grosh and Glewwe (2000). This publication also highlights the measurement challenges involved with each module.
1. Demographic Variables

The purpose of this module is to gather data on basic personal relevant household characteristics. Personal information should include age, sex, education, ethnicity, religion, and employment status and type. Additional information related to the household is also invaluable to assess general family characteristics of the respondent of interest. Basic household-level variables to consider are value of property and landholdings, and estimates of monthly income of all adult household members. Appendix 2, Module I, provides a sample module on demographic variables.

Income estimates provide for a general categorization of household flows (see Box 5). Income tends to come in several forms: wages, pension, agriculture, business enterprise, and rental income. Since the unit of observation is the household, it is useful to ask about income flows of the respondent separate from the other income earners. Depending on the source of income, the respondent may have difficulty estimating monthly income. Poorer, nonwage earning individuals tend to earn daily or weekly wages. Buy/sell enterprise owners likewise tend to earn on shorter time intervals than wage earners. Allowing for a free response for the unit of time does not force the individual or the interviewer to make extrapolations. Appendix 2, Module II, includes a sample module on labor income.

2. Physical Assets

The status and characteristics of property and landholding should be included in any module discussing physical assets (Appendix 3, Module III). In particular, renters and sharecroppers frequently choose to buy or contribute payments for land they do not yet own. Note that it is common for the plot on top of which the primary residence is situated to be owned separately from any agricultural land. A change in (status of) the ownership of the housing plot may signal an otherwise unidentifiable change in (a level of) wealth. Likewise, home improvements to roofing, flooring, etc., are also common improvements made when financial situations improve. Questions regarding housing material, for example, offer a multitude of possible responses. If, a priori, the researcher is aware of general preference rankings for goods, then spotting a change in roofing materials reveals income-elastic shifts toward investments in the home. Again, it is important to include local researchers and MFI staff in the design of the survey, to understand which home improvements might be more likely, and what are the preferences rankings in a particular region of the survey. This local context is also important for interpreting baseline welfare measures that involve housing characteristics.

As mentioned, gathering a detailed inventory of household physical assets is important to estimating total household savings. Savings can be stored in both liquid and physical assets. Home and agriculture related physical assets represent savings that are commonly shared by all individuals in the household. Therefore, it is recommended that while the individual is the unit of observation, all large household and agriculture related physical assets are included in the survey. Basic questions concerning ownership status and count should form the main components of this module.

Ideally, the researcher would like to ascertain the entire household inventory of physical assets. In reality, this is impossible. The next best strategy is to focus on assets of substantial value. These items can be more realistically regarded as savings instruments because given their value, they are more likely to be liquidated. This module should also establish the flow of physical assets through the household. This allows the researcher to place a currency figure on the total assets owned and on the flow of purchases made by the household. However, unlike land and property assets, asking the present sales value may be difficult as individuals rarely have a good sense of the market for used furniture, electronics, and appliances.
While total assets is a stock, the flow is a rate, which may be difficult to measure due to the infrequent and lumpy nature of their expenditures. To gather information on flow, it may suffice to ask whether an item of a particular type had been purchased in the past year or so.

Agricultural assets can be similarly regarded. Since the investments and returns to agriculture and animals are frequently shared by all members of a household, there is no justification to inquire about individual-specific agricultural activities separate from the larger household. The survey should gather inventory on animal stock, fertilizers, and farm implements at the household level. Note that there may be individuals who do not own land yet, but still engage in agricultural activity; and other individuals who do not engage in agricultural activity yet, but still own agricultural assets traditionally associated with farming (most commonly for animal husbandry). Animals, in particular, are often used as savings devices in many cultures. Finally, land holdings can be more readily valued and quantified (area), and should be asked in any survey investigating assets.

Agricultural activity may be of interest beyond the purchasing of more agricultural implements. Increased capital due to a new product may lead to changes in investment behavior beyond the purchasing of physical assets. Such behavioral changes should be captured in the survey. Investment questions can be broad (topics include number of crops harvested or land utilization). Appendix 2, Module III, includes a sample module on physical assets.

In general, it is important to know the price of such assets to be able to value them, and how the prices for such assets changed over the intervention period. The change in prices of these alternative savings/investments devices—including both physical assets and financial assets relative to that of saving in a commitment savings account—could be a reason behind any changes in these assets we might see. We would thus not be able to attribute changes in these assets to the new savings product. However, if the randomization is done correctly, this need not be a concern. Because subjects across many subregions were randomly assigned to treatment control groups, there is no reason to believe that they would face systematically different changes in relative prices; thus changes in assets we see can be more confidently attributed to the savings product, rather than to changes in the price of those assets. This is a further advantage of randomizing on the individual level, versus on a more regional level where it is possible that relative price ratios would change differentially.

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**Box 5: Philippines Savings Project—Income and Expenditure Patterns**

Of particular interest to the authors is the scope for financial planning with the commitment savings product. Individuals may commit to saving cash until it is needed for business investments. In theory, this helps to smooth savings from high net income periods (when sales are high) to high net expenditure periods (when investments are high). We can identify savings behavior through the assets and bank savings data, but the savings behavior needs to be compared to the net income flows of the individual throughout the year.

To ascertain this, we include an income and expenditure section within the enterprise module. We ask whether income (and expenditures) is variable from month to month. If so, we ask more detailed questions regarding for which months income (and expenditures) is high and low, and the typical levels for those months. In this way, we can form general cyclical patterns for the income and expenditures of a particular enterprise. With this information, we can better predict take-up of the commitment product, and examine whether increased savings and take-up of the product lead to an enhanced ability to plan for investments.
3. Enterprise Assets

While there is substantial scope for intrahousehold sharing of enterprise assets, the ownership and control of enterprises generally have more clearly defined demarcations. Therefore it is not necessary to survey the assets and activities of all household enterprises, but only those that are directly affected by changes in financial capital due to the new product.

As with the case of agricultural activities, enterprise activities should be investigated with respect to the stock of physical investments, and to the broader shifts in investment behavior. The survey should first identify all relevant household enterprises, ensuring that the fungibility of capital across household enterprises is accounted for. It is helpful to gather all responses for assets and investment behavior for an enterprise before continuing to the next enterprise. Appendix 2, Module IV, provides a sample module for Nonagricultural Enterprise Assets.

4. Financial Assets and Liabilities

Of the modules suggested in this article, financial assets and liabilities may be the most difficult for which to gather accurate data relevant to the assessment of the new product. Three main issues characterize this difficulty. First, and most fundamentally relevant to an investigation of financial behavior, is that people pool financial resources. This is of critical importance because the first order effect of a financial product is a change to financial asset level. If sharing of financial assets occurs, then the study may be confounded from the beginning. Randomization can control for unidentifiable sharing of resources. However, if sharing occurs as a result of the product (household members using the new product of the client of interest), then bank data will have systematic positive measurement error. As a result, it is important to inquire about the balances of all accounts owned by the client of interest, and the account balances owned by anyone who contributes to the new product of the client.

A second problem involves the reluctance of some individuals to reveal their account balances. Naturally, the researcher already has access to individual bank account data. The researcher can verify the accuracy of the individual's response. However, the main interest in these questions is to determine total financial asset levels. Assets held in a bank with whom the researcher is not affiliated will not be estimated accurately if dishonesty plays a role in response. The most useful tactics the interviewer can employ are to (i) ensure confidentiality (indeed, a common impediment to accurate responses to savings is due to the fear of friends and relatives wanting to borrow money from the client); (ii) explain the motivation of the research to alleviate suspicion; (iii) request that the interview be in private; and (iv) categorize the question in brackets so that the exact figure is not revealed.

A final difficulty is ensuring anonymity of the researcher. This is compromised if the interviewer reveals the collaboration between the MFI and the researcher, as clients may regard such a collaboration with suspicion. Such collaboration may easily be revealed if the survey asks about balances at a particular institution. A useful tactic is to first ask where the client has accounts of a certain type. Then the interviewer is free to ask about account balances at the institutions of interest, inquiring about each of the accounts at the institutions just named by the respondent. Indeed, the interviewer should already expect the name of the bank with whom she is collaborating to be named!

This section should also account for savings held at home and in informal savings and lending groups. Limited markets for microsavings and microfinance have created large markets for informal associations and savings and lending clubs. Individuals with accounts at MFIs or at commercial banks may still participate in savings groups. Such associations may incorporate desirable peer pressure and social commitment devices that formal finance markets may not provide.
Finally, this section should include gifts and transfers that the household has received, as these can often be a large component of household income. Appendix 4, Module V, provides a sample module for financial assets and liabilities.

**B. Putting the Survey Together**

Once the various modules have been designed, care must be taken when bringing them together into the questionnaire to ensure that there are no overlaps in the individual questions across modules. It is often hard to persuade households to sit for a very long survey, so repeats or extraneous questions should be eliminated at this stage. However, careful attention should be paid to the trade-off between the time costs of repeated questions, and the benefits of consistency checks that only repeated questions can provide (see Box 6).

The questionnaire requires detailed formatting and translation into local languages—two processes whose importance are often underestimated. While the developer of the questionnaire fully understands the nuances of each question and the structure of logic across questions, the same cannot be assumed of the respondent. The logic defining the flow of questions within a survey module may not be immediately apparent to the respondent. Formatting the questionnaire with an apparent flow can facilitate accurate data collection, and minimize both the survey subject’s discomfort with particular questions and data entry errors. Other references provide a more detailed discussion of the implications of a well-structured questionnaire.

Translation of the questionnaire into local languages is also taken for granted. Fewer mistakes are made when the questionnaire is translated at the time of the interview. It also ensures that the survey testing stage will better be able to discover undesired connotations of questions when asked in the local language.

**C. Testing and Implementing the Survey**

Once the survey has been designed, brought together, and translated, it is critical that the survey be field-tested. The goal of a field test is to ensure that the questionnaires collect the information they are intended to collect (Grosh and Glewwe 2000). Every question should be properly tested in the field for clarity of wording, possibility of ambiguous response, and multiple interpretations; all responses to the question must be anticipated and coded. The modules should be reassessed after the field testing to make certain that all major activities, living arrangements, and sources of in-kind and cash income (where applicable, depending on the objectives of the survey) have been accounted for, and to delete any redundant or irrelevant questions. Finally, the questionnaire as a whole should be reassessed to make sure there are no variables that are unintentionally double-counted, and that the full range of required information is collected. The field testing of the survey should be done by the survey designers, the survey research supervisor, and a few experienced surveyors.

After the survey is tested, reassessed and, if necessary, adapted, the survey team should be trained fully. The survey team should consist of a main research supervisor who will be involved in designing and testing the survey and will train the surveyors and supervisors; several field supervisors who will oversee the work of the surveyors; and a team of surveyors who will actually ask the questions. Once the surveyors and field supervisors have become very familiar with the survey and have been trained on surveying skills such as not leading the interviewee when asking a question, probing where necessary, etc., they should do field trials with the survey. Once these field trials are done, and the survey team feels confident in their ability to conduct the questionnaire, the survey implementation

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*See Grosh and Glewwe (2000, chapter 3), for an excellent discussion of these issues.*
Box 6. Philippines Savings Project—Predicting Take-Up

The survey for the commitment savings product includes two additional modules devoted to predicting take-up. The first module examines time and risk preference questions, the second ascertains the share of decision-making power within the household.

As is common in the related literature, time and risk orientation will be measured through short questions asking individuals to choose among simple lotteries and among combinations of time and interest rates options on loans and investments (Ben-Zion et al. 1989, Shelley 1993, Tversky and Kahneman 1991, Frederick et al. 2002). It is thought that the commitment product will be most appealing to individuals who both have problems committing to savings (which may be exacerbated by particularly volatile net income streams), and are able to realize this problem. Those who do not recognize the potential for a commitment device to help them will not take up. Likewise, those who do not have difficulty committing to savings do not need devices to maintain desired savings. Naturally, the notion of commitment is a psychological concept, and is therefore not easy to quantify, nor to identify in questions that target one dimension of behavior. For our purposes, a variety of questions that are exclusive along behavioral dimensions, yet share a relevance to the notion of commitment, are included in the survey to better capture a broader view of time discounting.

We ask women questions about decision-making within the household in order to ascertain whether spousal or family control issues might explain a higher propensity to save with a commitment device. We would like to compare the take-up and savings of women with husbands versus comparable women without husbands. Comparing single and married women would not be useful as the two groups would substantially differ in their characteristics. Therefore, we add a question in the demographic module regarding widowhood, and the reasons for husband's death. By comparing the take-up and savings of married women with the take-up and savings of women whose husband died by an unexpected exogenous cause, we can plausibly measure the average degree to which the commitment product is used for money sheltering. Furthermore, by asking these questions in both the baseline and the follow-up, if the commitment product does help individuals save more, we then can observe if having more savings helps women develop financial independence. Appendix 4, Module VI, provides a sample of the module on decision making used in this project. The Module on Time Discounting was not included in the Appendix for the sake of brevity, but is available from the authors.

Additional factors that could affect take-up in this case should also be included in this analysis, including distance from branch and cost of getting there, and various savings needs, like the number of children in school, access to health insurance, etc. In analyzing both take up and impact, one might find that on average there was no significant effect, but for certain groups—such as those who did not have health insurance, or those with several children in school, or those closer to a bank branch—there was a significant effect.

officially begins. At the end of every day, the field supervisors should look over the surveys brought in and clarify anything that remains ambiguous with the surveyor who undertook the survey. The surveys are then ready for data entry.

If the researchers are particularly interested in conducting gender analysis to see if, for example, a certain product affected household decisions about resource allocation or changed intrahousehold conflicts, men and women should ideally be asked the questions separately, and not in each other’s presence. It is also important to have enough women on the survey team so that women being surveyed feel comfortable being in a separate room alone with the surveyor.

This survey, as described above, provides baseline measures of welfare for the individual and/or household. Once the product is introduced, the researchers and MFI should jointly decide when the follow-up survey should be implemented. The follow-up survey is essentially the same as the baseline survey, and provides a panel of the same household over the project period. The timing of the follow-up should be determined by when impact can reasonably be expected. For areas in which income

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1See Grosh and Glewwe (2000) for more details on timing and content of the training and testing.
follows clear annual cycles, the period after the intervention is started and before the follow-up should be at least one year. Because the same households are asked about their assets before and after, they should not need to remember how much they had before. This helps avoid memory bias. However, care should be taken to make sure that there is the same interview schedule across all households in both the baseline and the follow-up survey, so that the timing for each is similar.

V. ANALYSIS

The baseline survey has the potential to define the characteristics that determine take-up of the product conditional on having been offered it in the randomization. This analysis must be restricted to those individuals who are offered the product. By comparing the characteristics of individuals who take up the product when offered, against those who do not, the researcher can make statements about what characteristics influence the take-up decision of the client.

The impact analysis draws upon three data sources: baseline data, follow-up survey data, and all data gathered by the MFI. The latter includes basic data on balances and transaction history, as well as other savings and loan products that the subjects were using or had available to them.

The effort spent on randomization has immediate returns in the analysis: the sophistication of the experimental research design allows for easier identification of estimated impacts of the new product.

The randomization of assignments should induce statistically similar pre-intervention treatment and control groups so that the post-intervention survey is sufficient for consistent estimation of product impact. Under sufficiently successful randomization, simple averages between outcomes of interest in the post-treatment survey can be compared across the two groups. In theory this alone will deliver consistent estimates on the impact of the new product. However, depending on the sample included in the analysis, the estimated difference has different interpretations.

While treatment assignment is random, take-up within the treatment group is not, as discussed above. Therefore a distinction exists between comparing the average outcomes across all clients in the experimental groups, and comparing the average of the control individuals against those treatment individuals who took up the product. Comparing the outcome for treatment versus control groups can be done through a simple OLS regression of the relevant outcome variable (e.g., for changes over the time period in account balances or asset accumulation) on a dummy variable for treatment status. Such a regression is no different than a simple comparison of means t-test to test whether the mean of two samples (treatment and control) can be distinguished statistically. The coefficient on the treatment dummy variable (whether this person was in the treatment group or not) is considered the Intent to Treat effect (ITT). This is an average of the causal effect of being offered the product. This is because since it is an average of all who were assigned to the treatment group and offered the product, it includes both those who took up the product and those who did not. This might result in much lower estimates of treatment effect than otherwise expected if the percentage of people offered the product who actually took it up was low.

It is possible to try to “scale up” this ITT effect by the proportion of people who actually took up the product. This provides an estimate of the effect of the product on those who used it, referred to as the Treatment on the Treated (TOT) effect. Although this is an important estimate, the subtle distinction in the question it asks should be noted for policy purposes: This analysis answers the question “what is the impact of this product on clients who take it up?” and not “what is the impact of this service on clients who are offered this product?” For policy implications, this is very different if those who take up the product are fundamentally different than those who do not, and also in terms of conducting cost-benefit analysis. This estimate is calculated through Two Stage Least Squares by using
assignment to treatment group as an instrument for actual treatment (since assignment to treatment
group was random and exogenous to the outcome variable we care about, but the take-up decision is
likely correlated with outcomes of interest\textsuperscript{6}). The instrumental variables approach is required for one
simple reason: the decision to take up a commitment savings product is likely to be highly correlated
with overall desire to save more for the future. The key policy question requires understanding what
would have happened if the commitment savings product were not offered in the marketplace. Individ-
uals who took up the product, had the product not been offered, likely would have found some other
means by which to save. For this reason, there must be some random variation in the access to the
product in order to attribute its impact to the product, and not the overwhelming and unstoppable
desire of the client to save.

A word should be said about possible biases that may remain, and which can particularly
plague a randomized design. Foremost among these is attrition bias, the effect whereby members of
the treatment group leave the sample, either by moving or by refusing the follow-up survey, etc. In
these cases, the researchers will not have post-treatment data for a certain group of people who were
originally in the sample, and thus this group of people will have to be excluded from the analysis.
However, it is likely that this attrition was not random. For example, perhaps the least motivated
people dropped out or the most economically vulnerable moved. This would bias the results, since the
analysis is now based on a nonrandom sample. With random assignment into control and treatment
groups, and with analysis being based on assignment to treatment group, rather than actual treatment
status, one would hope that there should not be any reason why more or different types of people would
drop out in the treatment group than in the control group. In the example of the Philippines, attrition
bias would be an issue if members of a certain group were either more likely to move or more likely to
refuse a follow-up survey, but since individuals were randomly selected this should not be the case. In
other examples of field experiments where treatment was given to certain schools but not others,
attribution bias has been a significant problem as pupils actually moved from control schools to treatment
schools in order to receive the treatment. Since those pupils were still considered control group
subjects, and their averages included in the control group average, this biased the results downward.

Another bias that is not as frequently a problem but should still be considered is the Haw-
thorne effect where being followed in itself is a treatment. Thus, control households might adapt their
behavior differently than they would have otherwise because they know that they will be interviewed
and followed. This is likely to be a larger problem for studies that have very regular follow-up, as
opposed to only once a year.

VI. POLICY RECOMMENDATIONS AND CONCLUSION

This guide is not for every microfinance organization nor is it for every microfinance product.
Rather, it is for the leaders, for the microfinance organizations interested in breaking into new territory
to learn more about specific impacts of new product designs that are new, promising, but unproven. A
donor funding such early-stage innovations should want generalizable results so that policy recommen-
dations can be drawn and projects replicated and expanded. For this reason, there is a strong argument

\textsuperscript{6}In order to use treatment assignment as an instrumental variable for treatment—and thus be able to estimate the TOT from
the ITT—the following assumptions must be fulfilled: (i) assignment to the treatment by itself would not affect our outcomes
directly (and instead only works through the treatment it provides); (ii) assignment to treatment group is truly random; and
(iii) control group members are prohibited from using the commitment product. Even with these assumptions, we cannot
assume that this effect is homogenous across the population; it may only have the observed effect for precisely the type of
people who would voluntarily choose to use it.
to subsidize early-stage innovative work, such as the commitment savings products being tested currently in the Philippines. This approach to testing innovations is true not just for microfinance, but also for development projects across most sectors.

The microfinance industry in particular is rampant with different lending and savings products, and little empirical research has shed insight into the relative merits (see Banerjee 2002), both to the institutions as well as the clients, of one product design relative to another. Comparing product success across organizations, unfortunately, confounds organizational differences. In other words, did Product A at Organization A work better than Product B at Organization B because the product design was better, or because Organization A simply is better managed? There typically is little way to disentangle the difference between the personnel and the difference between the products design. Valid product design testing must be done within organizations. Rigorous, experimental designs can inform microfinance organizations and donors worldwide about what works best (and for whom) and what does not. Such rigorous experimental designs should be carried out in addition to, and not in lieu of, important qualitative research to help define and design innovative solutions.7 Once the idea is formulated and qualitatively the ideas seem to work, then quantitative experimental designs can draw robust conclusions, including cost-benefit analysis, to decide whether the project should be replicated and scaled.

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7See Microsave Africa (http://www.microsave-africa.com) for excellent work establishing norms and procedures for qualitative market and product design research for the microfinance community.
APPENDIX 1: STEPS FOR NEW PRODUCT DEVELOPMENT

The process for developing a new financial product is described in great detail in many other publications, such as the Microsave Market Research for Microfinance (available: http://www.microsave.org), and the Microenterprise Best Practice publications on new product development (available: http://www.microsave.org). The bulk of this paper has focused on the proper evaluation of such new financial products. In this appendix, we will review the steps that are involved with developing a new product before it is to be tested.

Stage 1. Idea Generation

Ideas for new products come from many sources. Donors often suggest products that have been used successfully in other contexts. Researchers may provide ideas on new products based on their research. Exchange visits from other microfinance practitioners generate new ideas. Participation in conferences contributes new insights, as does investigation of research provided on the Internet. Staff of an institution can provide ideas. And finally, probably the best source of ideas on new products is an institution's own clients. It is very important to listen to clients, and to the people within the institution who have direct contact with them, such as promoters, loan officers, and cashiers. Institutions can institutionalize a client feedback mechanism by establishing a client committee whose members provide feedback, not only on new product ideas, but also on existing products and their delivery. Another name for this committee might be quality control committee. Feedback from clients also comes from loan officers and promoters in their regular meetings with supervisors.

Data analysis can contribute to generating new ideas for products. These data would include monitoring information as well as evaluation findings. Some indicators that might point to the need for a new product would be loan delinquency, drop out rates, inactive savings accounts, limited demand for a product, and seasonality of demand for savings or loans. This information can be bolstered by a market study, discussed in the next section.

Stage 2. Development of a Product Concept (“Prototype”)

Management may decide that a particular idea merits further discussion. Once management makes that decision, the next step is to appoint or deputize a person to act as the coordinator of the effort. This person has often been called the “champion” because s/he is responsible for overseeing the development of the product down to its final launching. This person can appoint a committee of staff (and even nonstaff) to assist in the work. This committee will be referred to in this document as the “product development committee”. It is helpful if the committee members represent the different departments of the institution. This is important so that the product development process incorporates different functional aspects like the management of information, human resources, finances, and field staff. Nonstaff could include board members, clients, and/or consultants.

The first task of the committee is to gather more comprehensive information in order to develop a detailed product concept that responds to the market.

Market Study—Supply and Demand

A market study has two sides: supply and demand. A supply study investigates the supply, or offer, for a particular product or service. Institutions that are conducting a supply study should be careful to

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*Adapted from Commitment Savings Account Guide (available from the authors upon request).*
maintain a broad definition of the concept of "supply." This is not just a study of what the competitors are offering. It is a study of all the options that people have for a particular service or product, which, in the example of a savings product, could include "in kind" savings vehicles, such as animals or land, or informal savings societies, like ROSCAS, as well as savings accounts in more formal institutions.

The basic questions that need to be addressed in a supply study are:

(i) What mechanisms are available in the market that meet this particular need, which in the case of commitment savings products, would be larger sums of money for events (weddings, schools), assets (land, animals, machinery) or productive activities (planting, labor costs, working capital)?
(ii) What are the specific market niches? What type of person uses each different service?
(iii) What are the important features of the mechanism or service?
(iv) What are the advantages and disadvantages to the user of the service?
(v) What are the costs and the benefits (returns) of each service or product?

It is useful, before embarking on an activity of this sort, to draw up a scope of work, describing what is to be accomplished and how long it should take. This is especially important if outsiders are involved in the data gathering.

**Demand Study—Current Clients and Potential Clients**

A demand study is intended to evaluate the demand for a product or service. The first step in this process is to segment, or divide, a population in accordance with its financial needs. An example of a market segment might be rural coffee farmers. It is likely that this segment will have common financial needs that will, at the same, be different from other market segments, for example, urban women traders. By segmenting a population by productive activity, socioeconomic status, household size, and other factors, it becomes easier to determine what a client's financial needs might be.

Once these segments have been defined, the study can use a variety of methodological tools and information sources to answer questions about the needs of a particular segment or niche of a population. These questions include the following:

(i) What is this person's economic situation?
(ii) What does this person need money for?
(iii) When does this person have money to invest or save in his/her business cycle?
(iv) When does the business owner need money?
(v) How does this person save money now?
(vi) Why does s/he put aside capital in these ways?
(vii) Do women have different needs for savings than men?

Answers to these questions may be different in different areas of the country, at different times of the year, and at different stages in a business' growth, and at different moments in an individual's life. Good methodological tools will take these issues into account.

To gather information in a way that can be analyzed, methodological tools can be used, including focus groups, semistructured interviews, individual interviews, and quantitative surveys. Each tool has advantages and disadvantages, based on its complexity, cost, and time to administer and analyze. It is useful to combine different types of tools, in order to double check ("triangulate") information received from different sources.
Focus Groups

The focus group is one methodological tool that tends to yield good results at low cost. These groups are often used to refine demand, for quality control, and to hear opinions on prototypes. They can yield valuable information on the features of a product that are most important to a client, which are not necessarily the cost. The following steps should be used when undertaking a focus group:

**Step 1: Team Selection**

The person facilitating the group should have experience in running a focus group, both in facilitating and in analyzing the data that is yielded. The facilitator should speak the language of the participants. The facilitator is a person who understands that the purpose of the group is not to arrive at a consensus but rather to investigate the depth of opinions and the reasons behind them. In addition to the facilitator, there should be a rapporteur, to record the information for later analysis. Both the facilitator and the rapporteur should have a good knowledge of the country or context, and understanding of savings products and client savings behavior. However, both will be careful not to let their preconceived ideas influence the discussion. In other words, they must remain objective and open-minded.

**Step 2: Group Criteria Selection**

The second step is to select the criteria by which group members will be chosen. Different groups can be chosen using different criteria. In the case of focus groups on new savings products, one group might be composed of rural, poor women. Another might be composed of urban men with small businesses. Notice that the group selection criteria often correspond to the market segmentation criteria that were discussed earlier. In cultures where women are subservient to men, the groups should be divided by gender.

**Step 3: Fix the Venue**

The place and time of the focus groups is very important. The groups should be held at a neutral location, at a convenient time of day for the participants, which does not interfere with the businesses or home activities. The place should be in a closed area, to avoid outsiders listening in, and quiet. It should be easily accessible to the participants. The discussion should last no more than two hours, and participants should be advised of this before the meeting so that they can arrange their activities.

**Step 4: Prepare a Discussion Guide**

A discussion guide is a general document for guiding the discussion, rather than a fixed questionnaire. For investigating the need for new savings products, the guide should include questions such as:

(i) How do you currently save, and why?
(ii) What has been your success in saving for a particular event or need?
(iii) What have been the difficulties that you have faced in saving for a particular event or need?

**Step 5: Conduct the Focus Group**

The facilitator always begins by introducing her/himself as well as the rapporteur. S/he explains the purpose of the interview, and thanks the participants for coming. S/he explains that the facilitating team is a group of independent researchers, and that the discussion is confidential. Only the general opinions will be shared with others; people's names will not be identified. If an institution is doing focus groups with its own clients, then the staff who most frequently interact with the clients in the group should not be facilitators, rapporteurs, or even observers.

After this, the facilitator begins with general questions that are designed to put people at ease. Gradually the discussion becomes more involved and more animated, as the facilitator directs the questions
toward the purpose. Opinions should be solicited from all participants by the facilitator. No one person
should dominate. The facilitator should take care not to lead the participants to a particular answer,
because it is quite common that the participants will say exactly what they think the facilitator wants to
hear.

The rapporteur does not contribute to the discussion, but may pass small notes to the facilitator about
who needs to be drawn out, or if a question is not clear. The group will have been told during the
introduction that this might occur, so that the facilitator does not lose their trust. A useful device for
recording these discussions is a tape recorder, since it is difficult to write down everything that is being
said.

Step 6: Debrief

After the focus group is concluded, and before beginning another one, it is important to debrief and
record impressions. The team sits together and the rapporteur reads the notes taken to see if clarifica-
tion is necessary. The tape recording can be used to double check. At this time it is valuable to review
the guide, to make sure that the questions are adequate for the purpose.

Step 7: Analyze

After a day's work of focus groups, there should be analysis of the data. The words of the participants
are the data. This data can be analyzed by the following factors:

(i) intensity of opinion
(ii) frequency of opinion
(iii) personal experience vs. rumor or vague impression
(iv) relationships between concepts

The analysis obtained from the focus group interviews can be supplemented by data from the other
methodological tools mentioned above.

Other Information Sources

Other sources of information are previously collected government household datasets, government
publications, research studies, newspapers, and Internet websites. These can be valuable in providing
broader perspectives on macroeconomic and political trends, demographics, population and environ-
mental changes, and other variables that might impact a new product.

Product Features

Once the market study results have been analyzed, and each population segment's needs identified, it
becomes possible to design a prototype product for pilot testing. The prototype should specify each of
the features of the product, which, for a commitment savings account product, might include:

(i) the minimum savings balance for opening an account
(ii) deposit parameters
(iii) withdrawal parameters (minimum periods, maximum periods)
(iv) penalties for early withdrawal
(v) rollover features
(vi) exceptions to the regular features

Cost and MIS aspects of the product are also major considerations for an institution in new product
development.
# APPENDIX 2: SAMPLE SURVEY MODULES FOR BASELINE AND FOLLOW UP EVALUATION

## I. Demographic Module

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
</table>
| A1a. Sex of Respondent | Male: \[1\]  
Female: \[2\]  |
| A1b. How old were you during your last birthday? | Age last birthday:  |
| A1c. Are you single, married/living with partner, separated or widowed? | Single: \[1\]  
Married/living with partner: \[2\]  
Separated: \[3\]  
Widowed: \[4\]  |
| A1d. If widowed, how did spouse die? | Spouse died in an accident: \[1\]  
Spouse died in a natural disaster: \[2\]  
Spouse died due to medical problems: \[3\]  
Spouse died by other cause: \[4\]  |
| A2. What is the highest grade you obtained? | None: \[0\]  
Grade 1: \[1\]  
Grade 2: \[2\]  
Grade 3: \[3\]  
Grade 4: \[4\]  
Grade 5: \[5\]  
Elementary Graduate: \[6\]  
HS 1: \[7\]  
HS 2: \[8\]  
HS 3: \[9\]  
High School Graduate: \[10\]  
Voc/Tech Course Graduate: \[11\]  
College 1: \[12\]  
College 2: \[13\]  
College 3: \[14\]  
College Graduate: \[15\]  
Post Graduate Studies: \[16\]  |
| A3a. Do you have children? | Yes: \[1\]  
No (Skip to A4): \[2\]  |
| A3b. How many children do you and your spouse have?  
Of this number, how many are males? How many are females? | Total number of children:  
Male children:  
Female children:  |
| A4. How many people are living in this household?  
(EXCLUDE GUESTS AND TRANSIENT VISITORS) |  |

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A5. What is your primary occupation?

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional, technical and related worker</td>
<td>1</td>
</tr>
<tr>
<td>Administrative, executive and managerial worker</td>
<td>2</td>
</tr>
<tr>
<td>Clerical worker</td>
<td>3</td>
</tr>
<tr>
<td>Sales worker</td>
<td>4</td>
</tr>
<tr>
<td>Farmers, fisherman, hunters, lodgers and related workers</td>
<td>5</td>
</tr>
<tr>
<td>Miners, quarrymen and related workers</td>
<td>6</td>
</tr>
<tr>
<td>Workers in transport and communications occupations</td>
<td>7</td>
</tr>
<tr>
<td>Craftsmen and production-process workers and laborers</td>
<td>8</td>
</tr>
<tr>
<td>Service transport and related workers</td>
<td>9</td>
</tr>
<tr>
<td>Microentrepreneur Service</td>
<td>10</td>
</tr>
<tr>
<td>Buy/Sell</td>
<td>12</td>
</tr>
</tbody>
</table>

A6. What is your secondary occupation?

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional, technical and related worker</td>
<td>1</td>
</tr>
<tr>
<td>Administrative, executive and managerial worker</td>
<td>2</td>
</tr>
<tr>
<td>Clerical worker</td>
<td>3</td>
</tr>
<tr>
<td>Sales worker</td>
<td>4</td>
</tr>
<tr>
<td>Farmers, fisherman, hunters, lodgers and related workers</td>
<td>5</td>
</tr>
<tr>
<td>Miners, quarrymen and related workers</td>
<td>6</td>
</tr>
<tr>
<td>Workers in transport and communications occupations</td>
<td>7</td>
</tr>
<tr>
<td>Craftsmen and production-process workers and laborers</td>
<td>8</td>
</tr>
<tr>
<td>Service transport and related workers</td>
<td>9</td>
</tr>
<tr>
<td>Microentrepreneur Service</td>
<td>10</td>
</tr>
<tr>
<td>Buy/Sell</td>
<td>12</td>
</tr>
</tbody>
</table>

II. Labor Income Module

Please give an estimate of the typical monthly cash income from the following sources, for people within the household:

<table>
<thead>
<tr>
<th>Income Source</th>
<th>Respondent</th>
<th>All Other males</th>
<th>All Other females</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor wages</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business Entrepreneur/Self-employed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farm Income</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enterprise Income</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rental</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### III. Physical Assets Module

#### A. Buildings and Land—Residential

A1 to A3 should not be asked; observe and encircle the category that best describes the predominant housing material

| A1. Main flooring material: | Earth .......................................................... 1  
| | Bamboo ................................................. 2  
| | Cement .................................................. 3  
| | Wood ..................................................... 4  
| | Tiles/linoleum tiles ................................. 5  
| | Others [SPECIFY] ....................................... 6  |

| A2. Main materials of wall: | Makeshift/salvaged/scrap materials ........ 1  
| | Nipa/cogon/other thatch ............................ 2  
| | Sawali/bamboo ......................................... 3  
| | Rough hewn timber/poorly fitted planks ........ 4  
| | Painted and well fitted boards .................... 5  
| | Half concrete/half wood .............................. 6  
| | Cement/hollow blocks/other expensive materials | 7  
| | Others [SPECIFY] ....................................... 8  |

| A3. Main materials of roof: | Makeshift/salvaged/scrap materials ........ 1  
| | Nipa/cogon/other thatch ............................ 2  
| | Galvanized iron ....................................... 3  
| | Tiles/clay tiles ...................................... 4  
| | Others [SPECIFY] ....................................... 5  |

| A4. Is this house owned by a member of your household? | Yes .......................................................... 1  
| | (IF YES, SKIP TO A6)  
| | No .......................................................... 2  |

| A5. If NO, what is the arrangement? | Rent .......................................................... 1  
| | Stay for free ........................................... 2  
| | Others [SPECIFY] ....................................... 3  
| | Don’t know .............................................. 4  
| | Not applicable ......................................... 5  |

| A6. If you make installment payments for your dwelling, what is the amount of the installment?  
(WRITE 99 IF THE HOUSEHOLD DOES NOT MAKE INSTALLMENT PAYMENTS) | [WRITE THE AMOUNT IN PESOS AND TIME (MONTHLY, YEARLY, ETC.) PAYMENT IS MADE]  

<table>
<thead>
<tr>
<th>AMOUNT (UNITS OF CURRENCY)</th>
<th>TIME UNIT</th>
</tr>
</thead>
</table>

| A7. Could you sell this dwelling if you wanted to? | Yes .......................................................... 1  
| | No .......................................................... 2  
| | (IF NO, SKIP TO B: CONSUMER DURABLES) |

| A8. If you sold this dwelling today, how much would you receive for it? | [WRITE THE AMOUNT IN PESOS] |
B. Consumer Durables

<table>
<thead>
<tr>
<th>Item</th>
<th>Does your household currently own a ________?</th>
<th>How many ________ does the household own?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Yes (® Next Item)</td>
<td>[INDICATE ACTUAL NUMBER]</td>
</tr>
<tr>
<td>Refrigerator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freezer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sewing machine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Car</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motorcycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bicycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Telephone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Television</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washing machine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stove</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water pump</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Karaoke</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electric Fan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
C. Agricultural Assets
   a. Land

| C1. Does any member of your household use land for agricultural purposes? | Yes .................................................. 1  
| | No .................................................. 2  
| | (IF NO, GO TO Part III) |

<table>
<thead>
<tr>
<th>C2. What is the number of plots used for agricultural purposes by the household? (AS STATED)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C3. What is the primary use of this land (AS OF NOW)?</td>
</tr>
<tr>
<td>Annual Crop Land ............ 1</td>
</tr>
<tr>
<td>Tree crop land ............ 2</td>
</tr>
<tr>
<td>Forest ............ 3</td>
</tr>
<tr>
<td>Pasture ....... 4</td>
</tr>
<tr>
<td>Water Surface ....... 5</td>
</tr>
</tbody>
</table>

| C4. Is this land irrigated? |
| Yes .......... 1 |
| No .......... 2 |

| C5. What is the main crop grown using this plot? |
| Own consumption .. 1 |
| Sell produce .... 2 |
| Both ........ 3 |

| C6. How is the main crop from this plot used? |
| Own Land ........ 1 |
| Still making payments 2 |
| Rent ........ 3 |

| C7. What is the type of ownership for this plot? |
| Integrated Social Forestry Program .... 4 |
| Free Use .... 5 |
| Other (______) (IF ANSWER 1, PROCEED TO C8. OTHERWISE, GO TO NEXT PLOT) |

<table>
<thead>
<tr>
<th>C8. What is the area for this plot of land? (CONVERT ARE TO SQ. METER IF GIVEN IN OTHER UNITS)</th>
</tr>
</thead>
</table>

| C9. How much could you sell this plot for if the household were to sell it? (WRITE VALUE OF PLOTS OWNED BY HOUSEHOLD MEMBER(S)) |

<table>
<thead>
<tr>
<th>Plot 1</th>
<th>Area</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plot 2</td>
<td>Area</td>
<td>Unit</td>
</tr>
<tr>
<td>Plot 3</td>
<td>Area</td>
<td>Unit</td>
</tr>
<tr>
<td>Plot 4</td>
<td>Area</td>
<td>Unit</td>
</tr>
<tr>
<td>Plot 5</td>
<td>Area</td>
<td>Unit</td>
</tr>
</tbody>
</table>
### D. Agricultural Equipment

<table>
<thead>
<tr>
<th></th>
<th>Does your household own any?</th>
<th>How many does your household own?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Yes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. No (® Next Item)</td>
<td></td>
</tr>
<tr>
<td>Machinery</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Tractor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large Tractor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harrow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand Water Pump</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Water Pump</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sprinkler</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor Thresher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand Thresher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rice Winnower</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mill</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor Insecticide Pump</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand Insecticide Pump</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cart/wheel-barrow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Livestock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cattle (Beef)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cows (Milk)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pigs (Breeding)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sows</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sheep</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Goats</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chicken</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
E. **Agricultural Supplements**

| Agricultural Inputs | How much have you spent on ____ in the past 12 months? (WRITE AMOUNT IN PESOS) | In the past 12 months, have you ever needed ____ but was not able to buy enough ____?  
1. Yes  
2. No |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fertilizer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pesticide</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herbicide</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fungicide</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

IV. **Nonagricultural Enterprise Assets**

A. **General Characteristics**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>
| A1. | Over the past 12 months, has anyone in your household operated a non-agricultural enterprise which produces goods or services, or owned a shop/trading business? | Yes .............................................................. 1  
No .............................................................. 2  
(IF NO, SKIP TO SECTION V: HOUSEHOLD FINANCIAL ASSETS AND LIABILITIES) |
| A2. | What kind of enterprise does your household operate?  
(AS STATED, IF NONE WRITE 99) |                                                                                   |
| A3. | For how long has the enterprise been in operation?  
(STATE TIME: MONTH /YEAR) |                                                                                   |
| A4. | Where do you operate the enterprise?  
| Home, inside the residence ...................... 01  
Home outside the residence ....................... 02  
Industrial site ........................................... 03  
Traditional market ..................................... 04  
Commercial district shop ............................ 05  
Roadside ..................................................... 06  
Other fixed place ....................................... 07  
Mobile ....................................................... 08  
Others (PLEASE SPECIFY) |                                                                                   |
| A5. | Who makes decisions regarding operations of the enterprises?  
(AS STATED) |                                                                                   |
B. **Revenue and Expenditure**

The next questions are about your typical revenue and income of your business. For revenues, please include total cash and in-kind value of goods and services that you receive from the sale of goods and services that you would typically expect from your enterprise, before subtracting any business expenditures and any expenses for your household.

<table>
<thead>
<tr>
<th>Typical Enterprise Revenue in Month</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Typical Enterprise Expenditures in Month</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

C. **Physical Assets**

I would now like to ask you questions about the assets (that is, equipment, buildings, vehicles, tools, etc.) that you use in your business.

<table>
<thead>
<tr>
<th>Enterprise One</th>
<th>At present, does this enterprise own ____? 1 Yes 2 No (® Next Item)</th>
<th>Did you borrow money for purchase of any ____? 1 Yes 2 No (® Last Question)</th>
<th>How much do you still owe in loans on ____?</th>
<th>If you wanted to sell all ____ , how much could you sell it for today?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buildings</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equipment/Materials</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Furniture</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tools (eg. Wrench, pliers, etc.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large Vehicles</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Vehicles</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unfinished Goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stock/Inventory</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enterprise Two</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Land</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buildings</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equipment/Materials</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Furniture</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tools</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large Vehicles</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Vehicles</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unfinished Goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stock/Inventory</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
V. Financial Assets and Liabilities Module

A. Savings

The following questions ask you to give general information about your savings accounts at the financial institutions or groups.

<table>
<thead>
<tr>
<th>Does any member of your household have savings in a ____?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Yes</td>
</tr>
<tr>
<td>2. No (® next Account type)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Is this account jointly owned?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Yes</td>
</tr>
<tr>
<td>2. No</td>
</tr>
</tbody>
</table>

| What is the current balance in this ____? |

<table>
<thead>
<tr>
<th>Current Account</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Yes (IF YES) Number of member with current account ________</td>
</tr>
<tr>
<td>2. No (GO TO NON-GREEN BANK ACCOUNT)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Savings Account</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Yes (IF YES) Number of member with savings account ________</td>
</tr>
<tr>
<td>2. No (GO TO NEXT ACCOUNT TYPE)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time Deposits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Yes (IF YES) Number of member with current account ________</td>
</tr>
<tr>
<td>2. No (GO TO NEXT ACCOUNT TYPE)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Post Office/National Savings Centers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Yes (IF YES) Number of member with current account ________</td>
</tr>
<tr>
<td>2. No (GO TO NEXT ACCOUNT TYPE)</td>
</tr>
</tbody>
</table>

| Other |

29
### Loans

**B1. In the past 12 months, have you applied for a loan of any kind (e.g., from a Bank, from a friend/family, cooperative, etc.)?**
- Yes: ............................................ 1
- No: .............................................. 2
  *(IF YES, GO TO B3)*

**B2. Why did you not attempt to borrow money in the past 12 months?**
- [WRITE UP TO THREE RESPONSES IN ORDER OF IMPORTANCE]
  - No need: ........................................ 1
  - Believed would be refused: ............... 2
  - Too expensive: ................................ 3
  - Inadequate collateral: .................... 4
  - Do not like to be in debt: ................. 5
  - Do not know any lender: ................. 6
  - Other (PLEASE SPECIFY): ............... 7
  *(SKIP TO B9)*

**B3. In the past 12 months, have you applied for a loan from a bank?**
- 1. Yes
- 2. No
  *(IF NO, SKIP TO NEXT INSTITUTION)*

**B4. Were you approved for the most recent loan?**
- 1. Yes
- 2. No
  *(IF NO, SKIP TO B8)*

**B5. Have you paid off this most recent loan?**
- 1. Yes
- 2. No
  *(IF YES, SKIP TO B7)*

**B6. How much do you currently owe to _____?**

**B7. What is the interest rate on the loan?**
  *(ANSWER THEN SKIP TO NEXT INSTITUTION)*

**B8. Why were you rejected? (allow multiple responses)**
- 1. Investment activity not accepted
- 2. Not enough income
- 3. Bad credit history
- 4. Inadequate collateral
- 5. Owe too much
- 6. Other reason

---

- **Bank**
- **Credit Union/Coop**
- **NGO**
- **ROSCA**
- **Friends/Family**
- **Employer**
- **Money-Lender**
- **Government Agency**
- **Other**
### B9. Can a person like you obtain loan from:

<table>
<thead>
<tr>
<th>Option</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>B9a. State Bank</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>B9b. Private Bank</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>B9c. Credit Union or Other Cooperative</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>B9d. Employer/ Landlord</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>B9e. Money Lender</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>B9f. Other (SPECIFY)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### C. Informal Savings

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1. Are you currently a member of a savings organization with members of your church, neighbors, or friends?</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>(IF NO, SKIP TO PART D)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C2. What kind of savings organization is it?</td>
<td>Informal Savings Group (e.g. paluwagan)</td>
<td>1</td>
</tr>
<tr>
<td>Others (PLEASE SPECIFY)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>(AS STATED)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C3. How many members save in your organization?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C4. Is your savings tied to a loan?</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>C5. Who are the members of this organization?</td>
<td>Friends</td>
<td>1</td>
</tr>
<tr>
<td>Family</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Neighbors</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Church</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Do not know</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Other (PLEASE SPECIFY)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>(AS STATED)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C6. How many times do you contribute savings to this organization?</td>
<td>(AS STATED)</td>
<td></td>
</tr>
<tr>
<td>C7. How many times do you withdraw money from this organization?</td>
<td>(AS STATED)</td>
<td></td>
</tr>
<tr>
<td>C8. Are there restrictions in the number of times you withdraw money from this organization?</td>
<td>Yes</td>
<td>1</td>
</tr>
<tr>
<td>No</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>
C. Remittances

<p>| | |</p>
<table>
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</thead>
</table>
| D1. In the past 12 months, has your household or any of its members received any money or goods from persons who are not members of your household? For example: for relatives living elsewhere, child support or alimony, or from friends or neighbors? | Yes ................................................................. 1  

No ................................................................. 2  

(IF NO, SKIP TO SECTION V) |

<table>
<thead>
<tr>
<th>D2. How many people have given assistance to members of the household in the past 12 months?</th>
<th></th>
</tr>
</thead>
</table>
| D3. In the past 12 months, how much in total have members of your household received from _____?  

(Use cash equivalent of in-kind assistance for calculating total assistance) | D4. Is this assistance sent by _____ given to a specific member of the household?  

1. Yes  

2. No |

| D5. How many times a year does _____ send this assistance? | D6. What is the main reason why _____ sent this assistance?  

1. Child Support  

2. Educational Expenses  

3. Medical Expenses  

4. Wedding  

5. Funeral  

6. Investment in Household enterprise  

7. Purchase of a durable good  

8. Other |

<table>
<thead>
<tr>
<th>D7. Must the household repay the assistance sent by _____?</th>
<th></th>
</tr>
</thead>
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<tr>
<td>Donor 1</td>
<td></td>
</tr>
<tr>
<td>Donor 2</td>
<td></td>
</tr>
<tr>
<td>Donor 3</td>
<td></td>
</tr>
</tbody>
</table>
VI. **Decision-Making Module (ONLY FOR FEMALE RESPONDENTS)**

**Introduction**

A. **Fertility**

A1. At what age did you first marry? (AS STATED)

B. **Household Decision Making**

C1. Who decides on the following? Is it you? Your husband? Or the two of you? Or other persons?

   [IF RESPONSE IS BOTH ASK: If you and your husband's decision do not coincide or your decisions are in conflict, whose decision will prevail?]

<table>
<thead>
<tr>
<th>Who Decides</th>
<th>Wife ............ 1</th>
<th>Husband .......... 2</th>
<th>Both ............ 3</th>
<th>Others ............ 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. What to buy in the market or what to cook for the family.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. When buying expensive things for the household such as radio, TV, etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>c. How many children to have.</td>
<td></td>
<td></td>
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<tr>
<td>d. What family planning method to use.</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>e. Giving of assistance and support to parents, in-laws, siblings etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>h. Buying items for personal grooming.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i. Selling or buying of items for family such as jewellery, car, house, land etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>j. Working outside the household.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>k. Hire or obtain the services of a servant.</td>
<td></td>
<td></td>
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