# Quantifying Achievements in Private Sector Development

# Implementation Guidelines

Version 1e, 23<sup>rd</sup> July 2009\*\*

These Guidelines have been developed by the Donor Committee for Enterprise Development (DCED) as a companion to the DCED <u>Methodology for Quantifying</u> <u>Achievements in Private Sector Development: Control Points and Compliance Criteria</u>. For more information please contact <u>Results@Enterprise-Development.org</u>.

\*\*Note: This Version of the Guidelines retains the same content as the first draft (dated 1<sup>st</sup> September 2008). However the structure, and some of the terminology used, have been revised, to correspond with Version IV of the DCED Methodology (dated 23<sup>rd</sup> April 2009). It is envisaged that the content of the Guidelines will continue to be refined and expanded during 2009.

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# A. Introduction

Development agencies have a problem, not least in Private Sector Development (PSD): how to quantify achievements in ways that are credible, and that can be both added up and benchmarked? Efforts to be more rigorous over the years have not been successful; the Donor Committee for Enterprise Development (DCED) has therefore identified this theme as a priority.

Extensive research and exchanges with field staff<sup>1</sup> have led to the formulation of a new approach; however, any methodology must be accepted by field staff, if it is to be successful. The process is therefore involving initially programme managers who have volunteered to test the approach.

Because these volunteer programmes are working with whole market systems through portfolios of interventions (rather than through single isolated projects), randomised control trials and quasi-experimental designs are often neither appropriate nor possible, except to verify individual steps in the programme logic. Arguably, they may only give the illusion of precision; the cost and complexity of such approaches have anyway excluded most programmes from participation.

The approach put forward in this document, on the other hand, advocates a mix of methods to estimate changes and attribution at each step in a programme's logic. The approach will generate numbers that are approximately correct, and which can, therefore, be the basis for useful conversations about donor effectiveness.

In this approach, programme staff will be in control of collecting and interpreting data; this will enable them to integrate results measurement into all phases of implementation, as donors have wished to do for many years. The credibility of this internal assessment will be assured by an external review of the measurement methodology, rather than of the resulting numbers. The ultimate aim is for a trained, external consultant to be able to 'sign off' on the system's quality to a minimum and widely accepted standard<sup>2</sup>.

The methodology for measurement in each project should lead to an estimation of the level of changes in employment and incomes; supporting data will enable donors and others to relate these changes to poverty (and particularly to MDG 1), with a little additional work – if they wish.

This concept has been welcomed by field staff; they know their (often complex) programmes better than others. It will also benefit from inputs by the HQ staff of member agencies of the DCED, in particular to consider how the approach can mesh with the procedures already in place in member agencies for measuring results.

# **Objectives**

This initiative has the following objectives:

<sup>1</sup> See www.value-chains.org/dyn/bds/docs/detail/649/4 for more information.

<sup>2</sup> The definition of a minimum standard does have precedents in other fields (e.g. www.hapinternational.org and www.alnap.org in humanitarian assistance) but not yet in private sector development

- o To enable **implementing organisations** to quantify and communicate their (often impressive) achievements in ways which are credible, and which can ultimately be benchmarked;
- o To save implementing organisations from having to 'reinvent the wheel', wasting time and energy in developing a results measurement system that duplicates what others are doing, and what funding organisations may later ask them to do;
- o To enable **donors** to add together and 'bulk up' the results of the initiatives they fund, for example to report to their Parliaments and tax-paying constituencies against the MDGs; and
- o To support all involved, including **partner organisations**, in focusing increasingly on outcomes and impacts, rather than on outputs.

While this initiative is being piloted by programmes with some experience, it also enables **managers of programmes that are just starting** to build results measurement into the original design of the programme, in a thorough way. For **those bidding for new programmes,** this approach offers the opportunity to gain advantage, by demonstrating willingness to take measurement issues seriously; ultimately, it may be required for all programmes. Note that Sections 1 and 2 represent the 'core' of any programme design and results measurement system, and should ultimately be represented in the programme design / proposal.

Given the need to focus, this initiative does not aim to address needs for qualitative information - including participatory consultation exercises with beneficiaries; it also does not cover monitoring and programme management issues, beyond those necessarily covered in order to quantify results in a credible way. Indeed, wherever possible, this methodology avoids management issues; quantifying results in credible ways clearly remains an ambitious goal.

# Development and application of the methodology

While the ultimate aim is to have independent verification of the methodology used, this version is intended primarily for testing and for self-assessment; additional pilot programmes are encouraged to volunteer, to give a good variety of geography, programme size and implementation stage, etc. For more information, please contact Results@Enterprise-Development.org.

This process, if successful, could lead to an important change for the PSD community, by quantifying achievements in ways that are comparable; this has not been done before. Care will be needed, therefore, to ensure that programme staff have incentives to collect and process data, objectively; penalties for 'poor' performance need to be minimised, at least during the introduction of the system, before benchmarks have been developed that take into account un-quantifiable aspects. In particular, this suggests that data generated during initial work will not be made public in ways which attribute specific numbers to individual programmes.

# B. How to Use these Guidelines

NOTE: This version of the Guidelines is a preliminary draft, intended to help those programmes pilot testing the methodology during 2008/9. It will be updated and revised over the coming months; in particular, it is hoped that the quality and quantity of examples in Annex A will be increased.

At present only those control points that are listed as 'MUST' are covered in any depth by these guidelines; more guidance on meeting 'RECOMMENDED' points will be added at a later stage.

These guidelines are intended to provide guidance for the staff of programmes implementing the DCED Methodology for Quantifying Achievements in Private Sector Development. However, the guidelines are suggestions only; programmes are welcome to implement the methodology in any way they choose, as long as they meet all control points and compliance criteria. Indeed, staff should expect to shape and adjust the proposed steps, in order to suit the specifics of their programme.

It should also be noted that these suggestions are general introductory guidelines only, to show projects where to start; they are not intended as a comprehensive M & E guide. For more detail and specific information on particular topics, programmes are encouraged to use the References sector at the end of each chapter.

This document follows the same structure as the Standard itself. Individual control points are grouped into eight chapters, each of which starts with a brief introductory explanation of the meaning and relevance of the criteria that follow. At the end of each chapter there is also a summary of resources that should be consulted for further information on the topics covered in that section. Efforts have been made to be as specific as possible; most references will point the reader towards particular chapters or even pages, rather than entire documents.

Within each of the eight chapters, individual control points are considered in more depth. Information is organised into two sections:

# • Auditor's Checklist

This provides a break down of the requirements of each control point, outlining the questions the auditor will be trying to answer, and the evidence they will be looking for.

# • Implementation

Here the reader will find guidelines and suggestions on how to meet the compliance criteria of this control point, broken down into individual steps.

In some cases, the implementation suggestions are accompanied by one or more examples of the forms, reports or diagrams that could be produced to help meet the compliance criteria, to show what such documents may look like. These examples are referenced throughout the text, and are grouped together in Annex A. Sample definitions are included in Section D.

# C. Guidelines to the Control Points

# **Results Chain**

Please Note: Results Chains are also known by a variety of other names such as <u>Causal</u> <u>Models</u>, <u>Causal Chains</u>, <u>Impact Models</u> or <u>Impact Logics</u>. The term 'Results Chain' will be used throughout these guidelines, but programmes are encouraged to use the language with which they feel most comfortable.

The results chain is a tool to show how programme activities will influence particular systems, how changes in these systems will affect enterprises, and how those changes in enterprises will ultimately reduce poverty and/or contribute to other development goals. Managers need to be explicit about the results chain of their programme: what actions are expected to lead to what results? For more complex programmes, this may include multiple, nested results chains. Log-frames, while originally intended for this sort of function, are not adequate, in their current form, for systemic programmes, as the format is too narrow and linear.

In order to establish the basis for measuring impact, programme results chains must show how changes at each level lead to changes at the next level, ultimately impacting on poverty and/or other development goals among defined target group(s). Modelling is a useful tool to enable programme staff to be explicit and deliberate about the system(s) they are working with and how system changes will lead to enterprise changes and poverty reduction and/or other specific development goals. The programme results chain(s) will need regular review, because of changing circumstances and unintended outcomes.

# **1.1 Results Chain and Supporting Documentation**

# 1.1.1 Auditors Checklist

- ✓ A documented results chain is developed for each intervention selected (See Examples 1.1a)
- ✓ The results chain(s) is thorough, logical and realistic, showing how the selected intervention(s) lead to achievement of at least some of the Universal Impact Indicators
- ✓ The levels of the model are sufficiently detailed that changes at each level can be isolated and assessed
- The programme has clear documentary evidence of research and analysis that underlies the logic of the sequence of steps in the results chain(s) (See Example 1.1b)
- The documentary evidence supports the logic that the changes outlined will be sustainable

# 1.1.2 Implementation

#### Drawing the Results Chain

The results chain provides the framework on which all programme activities, including impact assessment tasks, are built. It is therefore a vital starting point for all projects. Typically, an results chain will map out several different types of anticipated impact at three main levels<sup>3</sup>:

*Market Level* - In the value chains and markets involved, including product markets and sometimes also supporting markets for inputs, business services, and/or finance

# Enterprise Level - Among participating MSEs

Household Level - In the households associated with participating MSEs

These different levels are visible in Figure 1, which summarises the basic layout of an results chain (note that this diagram is simplified; additional boxes and arrows may be needed). To create such an results chain, programmes may wish to follow these basic steps<sup>4</sup>:

- 1. Write down the main project activity/ies. If more than one activity will be undertaken, you will need to show the relationship between them. Typical questions to ask are:
  - Does one activity lead to another? Or will they be undertaken at the same time?
  - Do they all target the same service providers? Or do they target different service providers?

<sup>3 &</sup>lt;u>USAID. 2006.</u> Assessing the Impact of New Generation Private Sector Development Programs, Impact Assessment <u>Primer Series Publication #1; p7</u>

<sup>4</sup> Adapted from: Katalyst Bangladesh. May 2008. Impact Management System Manual; p81-82

• Do they all aim to produce one specific change in service providers' capacities? Or are they aimed at different changes?

N.B. The results chain does *not* need to show every detail of the activities e.g. preparatory meetings and other activities

- 2. Describe the main change(s) in systems, service markets, intermediaries, enabling environment etc. expected to result from project activities. Add a different box for each major type of change.
- 3. Describe the expected changes at the enterprise level that will result from these changes in systems, service markets, intermediaries, enabling environment etc.

*E.g.* Add box/es describing specific changes in SME behaviour expected to result from increased use of a service and/or interaction with directly-reached service providers.

- 4. Draw a box to show the SME's improved performance. In some cases, there might be two layers of improved performance (increased productivity leading to increased profits).
- 5. Draw several boxes for the poverty reducing impacts that result from SMEs' improved performance.
  - a) Additional income for SME owners and workers
  - b) Additional jobs
  - c) Any other poverty reducing impacts.

[These boxes will show what your programme aims to achieve at the goal level. Please note the requirements at the goal level outlined in **Section 2**.]

#### **Supporting Documentation**

1. This criterion will require projects to have carried out credible market/systems research.

Typically, value chain research examines<sup>5</sup>:

- The End Market: The consumer trends and market opportunities in final markets, including product competitiveness along a range of factors including quality and price.
- $\circ~$  Enabling Environment: The Business Environment: The policies, institutions and operating context for businesses in that industry.
- Socio-Economic Context: The broader context of the program including socio-economic, political, gender, physical or environmental issues.
- Value Chain Relationships: The structure, business relationships and linkages in the value chain, including transfer of information, product designs, credit,

<sup>5&</sup>lt;u>Alexandra Miehlbradt and Linda Jones. December 2007. *Market Research For Value Chain Initiatives - Information* to Action: A Toolkit Series for Market Development Practitioners. MEDA; p10</u>

technology or other support products and services, through value chain relationships.

- Support Product and Service Markets: The critical support products and services purchased by the businesses in the value chain.
- Businesses Performance: How the various businesses upgrade at the enterprise level.

The method of market research will differ according to the respective purpose; the principle is to generate just as much information as is necessary to allow clear and realistic analysis. Programmes should aim to be pragmatic, and to select an appropriate procedure among the many approaches to market research.

*Note:* Useful sources of primary and secondary data are discussed in Box 1 below; see also the *Resources* section at the end of this chapter.

2. The information collected under step 1 should support the links shown in the results chain **(see above)**. Each link and relationship should be justified by the findings of the market research.

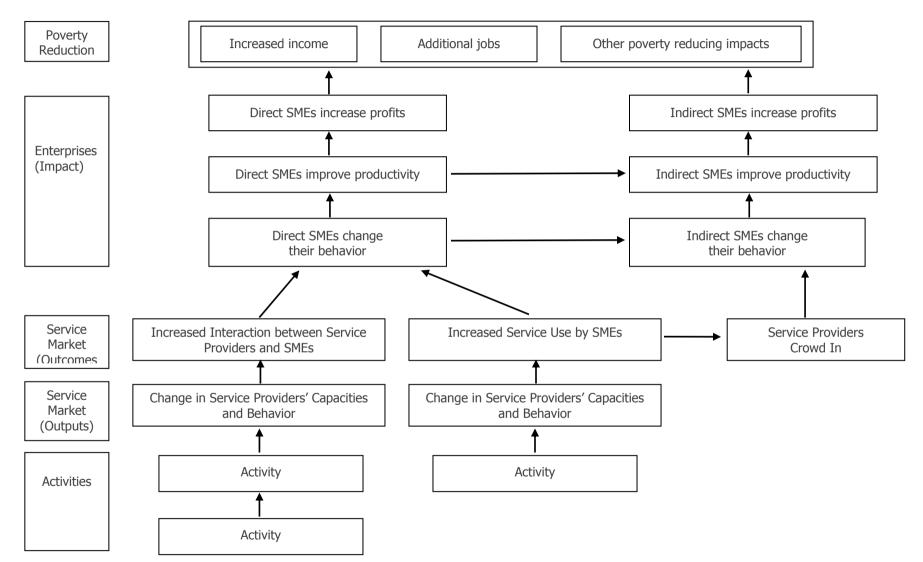
Note: All relationships shown in the results chain should be explained, down to the *enterprise level*. Justification of the link between changes in the enterprise level (e.g. increased SME income) and poverty reduction at the household level is not mandated by these guidelines at present. However, if programmes do chose to include this step, they must give a reasonable story to explain the link they are proposing.

- 3. Research documents should also include evidence to support the fact that the changes caused by the programme will be sustainable.
- 4. To prove that the above stages have been followed and that the results chain is based on credible and realistic research, projects must produce documentary evidence of this research.

*Box 1. Useful sources of market information Source: Oldsman and Hallberg 2002, p25* 

- Comparative information on demand and supply trends in different value chains (e.g. through field visits and interviews with sector specialists, global buyers and local suppliers and producers)
- Existing market studies for the products and value chains in question. "Government statistical
  agencies in many countries conduct surveys of enterprises and households on a routine basis
  that might be used in impact assessments. These include national income and expenditure
  surveys, household income and expenditure surveys, labour market surveys, and various
  industrial surveys". Other organisations such as banks, credit unions and cooperatives may
  also maintain data as part of ongoing operations.
- Compilation of secondary data from internet sources

Figure 1: Simplified Intervention Results Chain for Value Chains



# **1.2 Staff Familiarity**

# 1.2.1 Auditors Checklist

- ✓ Mid and senior level programme staff can describe the respective results chain(s) covering their work
- ✓ Staff can give examples of how they use the model to guide their decisions

# 1.2.2 Implementation

At a minimum, all staff should have a working knowledge of the programme results chain and how it relates to their work. They should all be able to readily access an up-to-date copy of the model, whenever necessary.

Examples of how staff use the results chain to guide their decision making can be both formal and informal; the former may include design documents for new activities that refer to the results chain, and position the proposed activity within the framework of the results chain.

# **1.3 Annual Review**

# 1.3.1 Auditors Checklist

- ✓ The programme has a clear system for reviewing the results chain(s) at least once a year (See Example 1.3a)
- ✓ The programme has concrete evidence (e.g. minutes of meetings, programmes staff reports) that justifies changes or lack of changes made (See Example 1.3b)

# 1.3.2 Implementation

The results chain(s) should be formally reviewed at least once a year to ensure that the evidence and assumptions on which it is based are still valid; updates should then be made as necessary. This does not mean that progress in markets and interventions should not be analyzed more often or that decisions should not be made more often. In fact, managers and staff should regularly analyze progress and results and make decisions on next steps. The annual review should give staff and managers an opportunity to take an in depth view of the effectiveness of the project, and ensure that any changes in market strategy or activities are documented, and that impact predictions and estimates are updated.

Review of the results chain(s) should be part of a broader annual review process, which should incorporate:

- Discussion of revisions to the market strategy and/or results chain boxes (if necessary)
- Review of projected impacts, based on new information/data (see Section 2.4)
- Review of the overall measurement system, particularly dates and methods used (see Section 3.1).

For all three, the details of the review process should be clear and widely understood. Details to consider include:

- The form the review process will take:
  - Face-to face meeting (preferred); or
  - Email / teleconference (if this approach is taken justification must be given as to why a face-to-face meeting will not take place)
- *When* (and if applicable, *where*) the review process will take place.
- *Who* will be involved, for example:
  - Project coordinator or manager
  - Members of the impact assessment team
  - High and medium level project staff
  - External stakeholders e.g. client/donor representatives (particularly if significant revisions are expected)
- The *key issues* that will be discussed during each review (ideally this would take the form of a generic draft agenda outline).

- The *responsibilities* of different individuals before, during and after the review process, including details of who will do *what*, and by *when*. For example:
  - A detailed agenda should be circulated to all participants in good time, so that individuals can are prepared for the discussions that will take place.
  - The agenda should be accompanied by any relevant supporting documentation, for example progress reports, updates on key indicators, or details of proposed revisions to the results chain. This will hep ensure that participants are well informed, allowing discussions to be structured and focused.
  - Individuals who are unable to attend the review meeting should be given the chance to send in relevant comments before the meeting takes place. However, a clear deadline for comments should always be given.
  - A chair or co-chairs should be appointed, to ensure that the meeting flows, and that all the necessary issues are covered within the allocated time-frame.

In order to ensure there is concrete evidence to justify changes or lack of changes made, it may be a good idea to circulate minutes or a short report to all stakeholders, outlining and justifying any decisions made during the meeting. Such a report should be clearly dated, and made readily available to all staff members; a copy should also be appended to the original Results Chain Report (see Example 1.3b).

# 1.4 Stakeholder Consultation (Recommended)

# 1.4.1 Auditors Checklist

- ✓ A clear system is in place for consulting programme stakeholders during the review process.
- ✓ The programme can cite or produce evidence of stakeholder engagement during previous reviews.

# 1.4.2 Implementation

# 1.5 Considering Systemic Change (Recommended)

# 1.5.1 Auditors Checklist

✓ The results of expected systemic change such as "crowding in" and /or "copying" are included in each results chain in the early stage of activities (See Section 5)

# 1.5.2 Implementation

1. Consider at what levels and how you expect crowding in to contribute to your goals. Show this in your diagram by linking "crowding in" or "copying" boxes to changes at the appropriate levels.

*E.g.* Add second box for SMEs reached through providers that have crowded in or SMEs that copy directly-reached SMEs

- 2. When describing the SME's improved performance, draw two boxes:
  - a) Directly reached SMEs go in one box
  - b) Indirectly-reached SMEs go in the other box

# **1.6 Displacement (Recommended)**

# 1.6.1 Auditors Checklist

✓ The programme can cite or produce evidence that displacement has been taken into account in the development of the results chain(s) (See Example 1.5)

# 1.6.2 Implementation

Research should consider likely displacement within and outside the value chain i.e. where nontarget groups suffer because the target groups benefits. To assess this, programmes will need to consider whether the markets involved are shrinking, static or growing; displacement will be far higher in shrinking and/or saturated markets. Some of the most likely forms of displacement, and an example of how one particular project has decided to handle them, are outlined in **Example 1.5**.

# **1.7 Resources**

# **Introducing Results Chains**

Katalyst Bangladesh. May 2008. Impact Logics- the Foundation of the System *In Impact Management System Manual;* p21

Katalyst Bangladesh. May 2008. Drafting a Market Impact Logic for Value Chains *In Impact Management System Manual;* p78

USAID. January 2007. Developing a Causal Model for Private Sector Development Programs, *Impact* Assessment Primer Series, Publication #4

#### Market Assessment/Supporting Research

<u>Alexandra Miehlbradt and Linda Jones. December 2007. Market Research For Value Chain Initiatives</u> <u>- Information to Action: A Toolkit Series for Market Development Practitioners. MEDA</u>

GTZ. Conducting and Supporting Market Research. ValueLinks Module 1.2

ILO. October 2006. Module 2; Value Chain Analysis In Guide for Value Chain Analysis and Upgrading

In particular:

- checklist of questions to ask global buyers; p19
- guidelines on how to approach global buyers; p21
- checklist of questions to ask local suppliers and producers; p23

Market Assessment Case Studies On www.value-chains.org

<u>SEEP. June 2005. An Inventory of BDS Market Assessment Methods for Programs Targeting</u> <u>Microenterprises.</u> Technical Note # 4

SEEP. June 2005. All Paths Lead to Learning: Common Mistakes in BDS Market Assessment and How to Avoid Them. Technical Note # 2

World Bank Group. <u>Household Surveys</u> **On** the <u>Poverty Monitoring Database</u>.

World Bank Group. Data sets and survey finder On Living Standards Measurement Study (LSMS)

# **Staff Training Courses**

DECRG annually gives a six-module course, <u>Poverty and Inequality Analysis</u>, of which Modules 1 and 2 are "<u>Designing and Implementing Multi-topic Household Surveys</u>: <u>Generating Policy Relevant Data</u>" and "<u>Sampling for Surveys</u>". These courses are open only to World Bank staff, or to the staff of agencies with umbrella agreements for joint training with the World Bank (eg. the IMF, the IDB, counterpart team members from developing countries who meet language and course pre-requisites, etc.). The course lasts two to two and a half days.

# Annual Review

Katalyst Bangladesh. May 2008. The Six Month Market Management Cycle *In Impact Management System Manual;* Section 9.2, p134

# **Indicators of Change and Projections**

The results chain provides a framework for conceptualizing expected changes that will result from project activities. These expected changes must then be translated into measurable indicators of change; it is tracking these indicators over time that reveals if, and to what extent, expected changes are occurring<sup>6</sup>. Each step in the results chain developed in the previous Section therefore requires at least one indicator to provide the basis for tracing changes in the various levels of the model through to increases in incomes and/or other development goals.

Intermediate indicators will be specific to the individual programme design, so will not be discussed in detail here. In order for agencies to be able to add up results across programmes, however, only a few universal impact indicators can be used to determine the goal level achievements of the programme; the following indicators have been selected:

- Scale: Number of target enterprises who received a financial benefit as a result of the programme's activities, each year and cumulatively. The programme must define its "target enterprises" (See Section 7.1).
- **Net income:** Additional net income (additional sale minus additional costs) accrued to targeted enterprises as a result of the programme per year.
- Net additional jobs created: Net additional, full time equivalent jobs created in target enterprises as a result of the programme, per year and cumulatively. "Additional" means jobs created minus jobs lost. "Per year" comprises 240 working days. The programme must explain why these jobs are likely to be sustainable. Jobs saved or sustained may be reported separately

With respect to the additional income, a way must ultimately be found to convert the additional income generated at the enterprise level into additional income at the household level. Larger programmes should therefore collect both enterprise-level and household-level data, but smaller programmes may be able to work with existing household survey data.

Programmes are, of course, free to report on additional goal level indicators, and to choose how to calculate each indicator - as long as the measurements and calculations are clear, transparent, well-justified and documented. Proxy indicators are acceptable as long as clear and reasonable justification is presented. All data must be disaggregated by gender, wherever possible.

The reason why programmes aim to improve whole systems and markets is to achieve sustainability – as a result of local ownership; this sustainability is the way to achieve better results over the long term, and is not an objective in itself. Nonetheless, a deliberate effort is therefore required to consider total impact over time, and it is proposed that impact be projected for 2 years after the intervention (or group of interventions) in a given geographical area has been completed. Attribution more than 2 years after the intervention, in most cases, is less plausible and data become less reliable.

Donor agencies ultimately need to be able to report their achievements in increasing incomes or reducing poverty, preferably against MDG  $1^7$ ; however, it has been agreed that programme staff may have neither the skills nor the resources to directly estimate their impact on reducing poverty.

<sup>6</sup> Katalyst Bangladesh. May 2008. Impact Management System Manual; p23

<sup>7</sup> See http://unstats.un.org/unsd/mdg/Host.aspx?Content=Indicators/OfficialList.htm

Therefore, programmes using this approach will collect sufficient information, that donors will be able to credibly estimate their impact on poverty (should they wish), by bringing in additional, specialist expertise.

Where needed and appropriate, the national definition of the poverty line should be used. If that line is not appropriate (e.g. if it is widely believed to have been adjusted for political purposes), then MDG 1 levels should be used. 'Baskets' of indicators, as being developed by USAID and CGAP, may be used at a later date.

# **1.8 Indicators of Key Changes**

# 1.8.1 Auditors Checklist

✓ The document(s) outlining the results chain(s) include relevant indicators for each key change described in the results chain (Examples 2.1a, 2.1b and 2.1c)

# **1.8.2** Implementation

Note: A programme may choose either to designate all changes described by the model(s) as "key changes" or, to lessen the amount of assessment required, to highlight the most important "key changes" and focus on these. If the second approach is chosen, the programme must explain why the chosen changes are considered "key".

Projects should then identify quantitative or qualitative indicators to be measured for each "key change" in the impact logic<sup>8</sup>. In deciding on what indicators to include, it is important to establish that they are linked to hypotheses, they are defined with precision, and that they are measurable within the timeframe and budget of the assessment. A good indicator is SMART: specific, measurable, attributable, relevant and time bound. The choice of variables should also consider their demonstrated validity in previous impact assessments<sup>9</sup>.

Table 1 lists suggestions of general indicators for broad application. However, in order to be a valid and reliable measure of change, indicators relating to a specific market and intervention must be defined more tightly (see Table 2):

Lazy and Loose	Tight and Precise
% financial sustainability of a business membership	% of total annual costs (including depreciation costs)
organisation	covered by revenue from membership fees, services
	sold and other private sources
% productivity change in business centres	% change in contribution of gross profit to cover
	consultant salary costs
% change in SME customer satisfaction	% change in SME customers reporting "exceeded
	expectations" in a random sample survey
% growth in a business membership organisation	% change (year-on-year) of total businesses paying
	full membership fees in business membership
	organisation.

Table 2: Precision in Defining Indicators<sup>10</sup>

Indicators must also be defined within a specific timeframe (e.g., profits in past month vs. profits in past year). For example:

- Average monthly sales over the last six months at the time of the baseline compared to average monthly sales over the last six months at the time of the subsequent measurement
- Sales in the last month at the time of the baseline compared with sales in the last month at the time of the next measurement<sup>11</sup>.

<sup>8</sup> Katalyst Bangladesh. May 2008. Impact Management System Manual; p23

<sup>9</sup> Carolyn Barnes and Jennefer Sebstad. March 2000. Guidelines For Microfinance Impact Assessments. AIMS; p36

<sup>10 2001.</sup> Developing indicators in small enterprise development projects, SED Working Paper no1;  $\,$  p22  $\,$ 

<sup>11</sup> Katalyst Bangladesh. May 2008. Impact Management System Manual; p46

Level	Broad area of measurement	Indicators	When appropriate
Household level	Poverty Reduction	<ul> <li>Net Additional income for SME workers and owners</li> <li>Changes in other poverty indicators (nutrition, empowerment, working conditions etc)</li> </ul>	
Enterprise Level	Enterprise Competitiveness	<ul> <li>Change in SME productivity</li> <li>Change in SME net income</li> <li>Jobs created as a result of programme activities</li> <li>Promising innovations/changes in business practices (e.g. sustainable eco-efficient products and processes)</li> </ul>	ideally each intervention will have measurable impact on as many indicators as possible from this "menu"
Service Market Level	Changes in framework conditions	<ul> <li>Changes in policies or regulations as a result of programme activities</li> <li>Documented changes that will modify how a policy or regulation, aimed at the target group, is implemented by a public agency (institutional)</li> <li>Target group's opinions concerning how the change has impacted on their businesses.</li> </ul>	When the services or deliverables which the target group expects come from the government
	Changes in the demand for services	<ul> <li>Target groups awareness of the service and the benefits it can deliver</li> <li>Willingness to pay for service</li> <li>Level of satisfaction with service</li> <li>Changes in business practices as a</li> </ul>	When measuring impact of services that might only have a direct impact on the target group in the long run Fee-based or stand alone services When measuring changes in demand for <i>embedded</i> services
	Changes in the supply of services	<ul> <li>result of service</li> <li>Number of new service providers entering the market</li> <li>Changes in number of clients served</li> <li>Changes in volume of business</li> <li>Changes in range of products offered</li> <li>Changes in number of service providers</li> <li>Target group's opinion of service</li> </ul>	All intervention types - to measure change in service quantity To measure change in service
Service Provider Level	Immediate outputs in the business service markets	<ul> <li>Target group's opinion of service provision</li> <li>Level of supplier satisfaction with success of service</li> <li>Number of service providers trained</li> </ul>	quality When measuring changes in supply of <i>embedded</i> services

Table 1: General Indicators for Broad Application

# **1.9 Universal Impact Indicators**

# 1.9.1 Auditors Checklist

- ✓ The universal impact indicators are included at the relevant level of the results chain
- ✓ Written justification is provided for any universal impact indicator NOT included in the results chain

# 1.9.2 Implementation

As stated in the introduction to this section, all programmes should measure the following goal level indicators:

- **Scale:** Number of target enterprises who received a financial benefit as a result of the programme's activities, each year and cumulatively.
- **Net income:** Additional net income (additional sale minus additional costs) accrued to targeted enterprises as a result of the programme per year<sup>12</sup>.
- Net additional jobs created: Net additional, full time equivalent jobs created in target enterprises as a result of the programme, per year and cumulatively. "Additional" means jobs created minus jobs lost. "Per year" comprises 240 working days (see Box 2). The programme must explain why these jobs are likely to be sustainable. Jobs saved or sustained may be reported separately.

Box 2: Full Time Equivalents (FTE) Adapted from: USNH. 2008; p1 and Salz et al. 2005;p7

Figures for the number of persons working less than the standard working time of a full-year fulltime worker should be converted into full-time equivalents, with regard to the working time of a fulltime full-year employee. Included in this category are people working less than the standard number of working days in the week, or less than the standard number of weeks/months in the year.

There are a number of different ways of calculating FTE jobs, but a standard formula may look something like this:

Days x Weeks = FTE Days in a year

Days = Number of days the employee will work in a week.

Weeks = Number of weeks the employee will work in a year.

Days in a year = Number of working days in the year (for the purposes of the DCED Methodology, it will be assumed that one year comprises 240 working days)

For Example: If an employee is scheduled to work 3 days a week for 25 weeks in 2009.

<sup>12</sup> A 'value-added' indicator may capture changes in both jobs and incomes, while avoiding possible double-counting. It is however a more sophisticated concept, that programme staff may initially find confusing, so is not covered in more detail here.

# 1.10 Assessing Sustainability

# **1.10.1 Auditors Checklist**

✓ There are qualitative and/or quantitative intermediate indicators that will provide information on the sustainability of changes described in the results chain(s)

# **1.11 Projections (Recommended)**

# 1.11.1 Auditors Checklist

- ✓ For each intervention being considered, there are projections for key indicators, to specific dates
- ✓ For each intervention being considered, there are projections for the universal impact indicators to EITHER the end of the programme OR to two years after the end of the programme
- ✓ Documents show updates to the projections have been reviewed at least once in the last year
- Projections are expressed as a change in the indicator due to the programme by a specific date

# 1.11.2 Implementation

Because it takes time for activities to have an impact on enterprises and poverty reduction, projects should make upfront *projections* about expected impacts when starting activities. These predictions give staff targets to aim for, and provide staff with feedback on the extent to which an intervention is on track.

- Projections should be made for the all key indicators as well as the 3 universal impact indicators, predicting the change that will result from the programme intervention EITHER the end of the programme OR two years after the end of the programme
- Each projection should be based on well thought out assumptions and findings from market research, field observations or other credible sources (see Box 3 below). The assumptions and findings supporting each projection, as well as any calculations made, should be clear.
- Projections of impact should be periodically updated to reflect new data collected on indicators of change. Programmes may find it easiest to discuss and agree these updates according to the same review process used to monitor changes to the results chain itself (see Section 1.3).

*Box 3: Commonly Used Sources of Information when Making Projections Adapted from: Katalyst Bangladesh. 2008; p52-53* 

The following are commonly used sources of information. Other sources are also acceptable.

- Staff experience and professional opinion:
  - Observations in the field
  - Informal information from key informants, market players or partners
  - o Staff's educated guesses, estimates or judgments
- Credible secondary sources:
  - o Government data
  - o Academic data
  - o Studies done by other donors or organizations
  - o Credible information from associations
  - Credible and formal information from key informants
- Programme information gathering:
  - Market studies and Inception Reports
  - Productivity studies
  - General market surveys or other surveys done for other markets
  - $\circ\quad$  Special studies done by the programme
  - o Case Studies done by the programme

# 1.12 Staff Understanding (Recommended)

# 1.12.1 Auditors Checklist

 Mid and Senior level programme staff can describe the indicators related to their work and give examples of how changes in indicators may affect their strategy and implementation decisions

# **1.12.2 Implementation**

# **1.13 Resources**

#### **Indicators of Key Changes**

Katalyst Bangladesh. May 2008. Develop Key Indicators *In Impact Management System Manual;* p44-46

Katalyst Bangladesh. May 2008. Key Indicators for Value Chians *In Impact Management System Manual;* Section 6.4 p84-89

L. Zandniapour, J. Sebstad, D. Snodgrass. July 2004. *Review of Evaluations of Selected Enterprise Development Projects;* p12-20

#### **Universal Impact Indictors**

Alan Gibson. 2001. Developing Indicators in Small Enterprise Development Projects; SED Working Paper No1; p12

Katalyst Bangladesh. May 2008. Measuring Key Indicators for Value Chains *In Impact Management System Manual;* P90-96

Oldsman. 2003. Poverty Indicators *In Assessing the Poverty Impact of Small Enterprise Initiatives;* Section 9.2 p9-10 and Appendix A

Judy L. Baker. 2000. Applying Analytical Methods for Impact Evaluation: A Case Study *In* Evaluating the Impact of Development Projects on Poverty; A Handbook for Practitioners. World Bank Group. p40

<u>USNH. 2008.</u> *Calculating FTE for Part-Time/Full-Time Temp/Casual Hourly and Salary Employees.* <u>University System of New Hampshire</u>

Salz et al. 2005. Calculation of labour including FTE (full-time equivalent) in fisheries

# Projections

Katalyst Bangladesh. May 2008. Assumptions, Predictions and Findings *In Impact Management System Manual;* p50-53

# **Measurement of Indicators**

The programme must develop a system to measure, regularly, the indicators specified in the results chain. The measurement frequency will depend on the indicator. In addition, the programme should always try to gather baseline information on all indicators before it starts, although this is sometimes not possible. Similarly, programmes should measure indicators at the end of the programme, in all cases. The programme should specify if and when intermediate measurements will take place as appropriate.

Research should be in line with established good practices for choice of data gathering tools, planning, questionnaire (or other instrument) design, sampling, data gathering, supervision, data entry, analysis and research management. It is helpful to support data on quantitative changes with information on qualitative changes.

Programmes will be responsible for surveys at the enterprise and/or household levels to measure changes in net incomes and jobs. They will also be responsible for assessing the poverty level of their target beneficiaries before the programme starts and at the end of the programme by determining income averages and distributions of target beneficiaries. Additional information on poverty status and reduction will be collected and reported wherever possible (e.g. including household surveys and poverty trends), so that donors may in future translate the data on jobs and income into projected numbers of people lifted out of poverty, should they so wish.

# **1.14 System for Measuring Indicators**

# 1.14.1 Auditors Checklist

- ✓ The programme has a document describing the system for measuring changes in indicators (see Example 3.1a)
- ✓ The document has a written description of what information will be gathered for each key indicator
- ✓ The document has a written description of how this information will be gathered
- ✓ The document has a written description of how each key indicator will be calculated or described
- ✓ The document explains at what intervals each indicator will be measured or assessed

# **1.14.2 Implementation**

"The choice of which method to use is determined by the size, significance and nature of the intervention. Smaller interventions generally use simpler methodologies; larger interventions use more substantial methodologies in order to be convincing."<sup>13</sup>.

The checklist below gives a general outline of the key steps that should be followed by programmes of all sizes, in order to establish a system for measuring change.

#### Decide What You Need to Measure

As the first step towards developing a measurement system, programmes must clarify exactly what it is that they intend measure. To do this, they will need an understanding of the specific information that will be required to calculate each indicator. (See **Section 3.3** for further guidelines on the measurement of these three universal impact indicators, including data/information collection, sources of information and attribution<sup>14</sup>).

# Consider Quantitative and Qualitative Research Methods

At an early stage in the development of an impact assessment system, programmes must decide whether to focus only on quantitative analysis, or whether to combine quantitative methods with supporting qualitative techniques. Qualitative methods are not currently covered by this standard, but can still add value; qualitative information collection tools have been found to be particularly useful for<sup>15</sup>:

- Underdeveloped value chains
- Getting information from micro and small enterprises (SEs)
- Understanding SEs' behaviour
- Developing the details of project design
- Market research implemented by in-house staff

<sup>13</sup> December 2006. Staff Guidelines for Conducting Impact Assessment; Impact Assessment for T-G PEC

<sup>14</sup> Adapted from: Katalyst Bangladesh. May 2008. Impact Management System Manual; p90-95

<sup>15 &</sup>lt;u>Alexandra Miehlbradt and Linda Jones. December 2007. Market Research For Value Chain Initiatives - Information to</u> <u>Action: A Toolkit Series for Market Development Practitioners. MEDA; p2</u>

#### Select Specific Research Tools (See Box 4)

Rather than selecting one method, programmes should aim to use a range of tools to collect the necessary data; information generated by mixed methods can help to establish the validity of the data and the reliability of the measures of change. However, it is not necessary to use a different tool for each indicator, in fact, it is important to group the indicators together and collect data on as many as possible with the same tool or tools. This will make the data collection both manageable and efficient. It may be necessary to make compromises to group indicators together; one tool may be better for some indictors and another tool for other indicators. Programmes should balance the use of appropriate tools with keeping the overall strategy manageable<sup>16</sup>.

The credibility of an IA is dependent on using data-gathering instruments that are well designed and clearly documented. Programmes must also ensure that adequate time is given to train people who will conduct the study<sup>17</sup> (see Section 8.1)

1. Surveys

For measuring changes in the common impact indicators, it is expected that programmes will need to carry out enterprise and/or household surveys. The following checklist should help programmes ensure that all surveys comply with established 'good practice' guidelines:

- Decide on suitable sample size. The sample size must be large enough to ensure that any changes measured have not occurred by chance; the size of the sample required for this depends on the size of the change, but as a very crude guide, at least 100 are needed for a sample of significance.
- Prepare a checklist of the exact information needed.
- Using the checklist, structure the questionnaire with closed-ended questions that do not 'probe' or 'lead' the respondent
- Ensure the questions are simple and are directed to get solid facts (see Box 6)
- Ensure the survey is sensibly structured and of an appropriate length (see Box 5)
- 2. Interviews

Most of the survey guidelines listed above should also be applied when conducting interviews. Interviewers must understand the questionnaire and be skilled; new interviewers should practice alongside a more experienced interviewer before attempting this on their own. It is also strongly recommended to pilot test the questionnaire.

- 3. Other Data Sources
- Information that can be gathered from providers.

e.g. Objective Information on Service Delivery<sup>18</sup>:

• Number of enterprises to whom the service is sold (from provider records)

<sup>16</sup> Katalyst Bangladesh. May 2008. Impact Management System Manual; p118

<sup>17</sup> Carolyn Barnes and Jennefer Sebstad. March 2000. Guidelines For Microfinance Impact Assessments. AIMS; p8

<sup>18</sup> December 2006. Staff Guidelines for Conducting Impact Assessment; Impact Assessment for T-G PEC; p13

Box 4: Tips on Choosing Appropriate Research Tools Source: <u>A. Miehlbradt and L. Jones. 2007; p39</u>

#### • Secondary Sources vs. Direct Respondents

Usually secondary sources are more useful for collecting broad information and statistics that individual stakeholders may not know, such as the aggregate export sales of a particular product. Look at secondary sources first, since you will have limited time with respondents and you will get a better reception from them if they can see that you have prepared by doing some prior research. Much of the detailed information on a value chain will have to be gathered from respondents as it is not usually available from secondary sources.

#### • Key Informant Interviews vs. In-depth Interviews:

Key informants are respondents who are in a position to have an overview of a particular value chain or issue. For example, the head of a chamber of commerce might be a useful person to interview about the economic situation in that area. In-Depth Interviews are more appropriate when you want to learn about the respondent's particular situation, attitudes and behaviours. So, In-Depth Interviews are generally conducted with businesses in a value chain and those stakeholders who might later be involved in the program.

#### • One on One vs. Group-based Tools

One-on-one interviews are better for grasping the basics of how a value chain works and for investigating entrepreneurs' and stakeholders' attitudes and behaviours. Group-based tools (FGDs and Stakeholder Meetings) are better for exploring ideas new to the respondents, engaging stakeholders in thinking about issues and problems, and generating and discussing ideas or solutions for developing a value chain. Group-based tools tend to be more effective when the moderator already understands the basics of the respondents' situations.

Sometimes, there are particular cultural issues which make one tool more appropriate than another. For example, gender issues or power relations in a particular culture may mean that some stakeholders, such as low-income SEs or market women, feel more comfortable with group-based rather than individual interviews. Or, for example, if there is ethnically based animosity among individuals or groups, one-on-one interviews might be more appropriate than risking conflict while using group-based tools.

- Monetary value of transactions for service in specified time period (from provider records)
- o Any data on growth in demand or consumption of the service

This information should be gathered from provider records whenever possible. It may also be gathered through interviews with the provider (see above). When possible, the information should be verified by using at least two sources.

• Secondary Information and Reports

The use of secondary information and reports allow researchers to get general information on the target area or sector, for example number of enterprises, area under cultivation, aggregate sales etc. Sources may be internally generated reports, or external documents and data on the sector, most often data from government offices on the sector. The sources of data will depend on the information needed<sup>19</sup>, but the following steps should be observed in all cases:

- Make a list of information needed in order not to waste time searching through documents or government data
- Only use credible external sources of information
- Be sure to record information sources

#### Establish a Baseline and Select Appropriate Intervals for Measurement

(see Section 3.2 for guidelines on establishing a baseline)

Measurements are needed, as a minimum, from before the start of the programme and from after the programme's completion. However, measurements should also be made at appropriate intervals during the programme's lifetime, to enable interim reporting and monitoring of the programme's progress (see Example 3.1b).

Elements of systemic change occur at different frequencies; the intervals at which measurement takes place should therefore be appropriate to when change is anticipated. For most indicators, programme staff will need to choose appropriate intervals for measurement based on their experience and knowledge of the market.

Generally speaking, the timeframe for changes in behaviour and performance of service providers is relatively short, such as six months to one year. The timeframe for changes in behaviour and performance of enterprises will be moderate, such as one year to 18 months, whereas the timeframe for change at the level of sectors and poverty reduction will be longer, such as 18 months to two years. However, these numbers can vary significantly, for example in agricultural sectors with fruit trees that take 5 years or more to mature.

If seasonal differences are significant, the follow-up measurements should be conducted during the same season as the baseline survey<sup>20</sup>.

#### Select Appropriate Analysis Techniques

Where appropriate, survey data can be analysed using a variety of statistical tests (see Box 7). However, projects should ensure that all analyses focus on key research questions and hypotheses.

#### Write Measurement System Report

Once appropriate tools have been selected, a report should be produced documenting the entire measurement system (see Example 3.1a). The report needs to provide sufficient information to assure the reader that the necessary steps and precautions were taken. As a minimum this report should include details of:

- The measurement tool selected for each indicator, with appropriate justification
- The interval at which each indicator will be measured, with appropriate justification

<sup>19</sup> Katalyst Bangladesh. May 2008. Impact Management System Manual

<sup>20</sup> USAID. 2006. Assessing the Impact of New Generation Private Sector Development Programs, Impact Assessment Primer Series Publication #1; p11

The report should also incorporate a detailed breakdown of individual measurement stages/tasks, including **when** they will take place and **who** will be responsible – often this information can be most clearly summarized in a table (see Example 8.1a).

Box 5: Survey Structure and Length Source: <u>USAID. 2006; p5</u>

In addition to getting the questions right, survey mechanics must be carefully structured. Each survey should be individually numbered, the survey should be logically organized and sections ordered, response codes must be clear, and other enumerator instructions must be clear and easily readable. In addition, information about enumerator and the date and location of the interview should be included. This information is essential for field supervisor checking of enumerators and for the follow-up surveys.

The length of the survey must also be carefully controlled. If the survey is too long, respondents may not finish the interview, or they may grow fatigued, resulting in a decline in the quality of information. Long surveys also require a greater investment of time on the part of the enumerators, which costs more and is often unnecessary when a shorter survey instrument can adequately cover the major research questions.

How long is too long? There is no ideal length. The Kenya tree fruit survey included 96 questions, although not every question applied to all respondents, and few respondents were required to answer every question. A rule of thumb is that surveys should take approximately one hour to complete on average, although in certain situations they can go longer than this, but preferably not too much longer.

*Box 6: Choosing Appropriate Survey Questions Source: Adapted from <u>USAID. 2006; p4-5</u>* 

The decision on which type of questions to include in the survey is subject to a number of considerations:

- The questions must cover the hypotheses identified in the results chain to the extent possible. Certain hypotheses, however, do not lend themselves to quantitative measurement through household surveys. Examples include sector-level impacts, which are thus typically addressed through interviews with sector stakeholders and secondary data.
- The questions must be clear and must elicit meaningful responses. A pilot test of the survey is essential to assure clear and meaningful questions. Internal checks provided by covering the same issue with a different type of question in the survey can also be useful. If the survey is to be translated into a different language or languages, the standard method to ensure clarity is to translate the survey into the relevant language(s) and then back again into the original language.
- Closed-end questions are generally preferred to open-ended questions. Closed-ended questions
  are easier to use because they are pre-coded whereas open-ended questions require coding
  after-the-fact. The larger the survey and the greater the variety of responses, the more difficult
  it is to code answers after-the-fact. Notwithstanding, open-ended questions can be useful in
  situations in which answers cannot reasonably be anticipated before-hand or in which a greater
  diversity of responses is sought.
- Questions should not be offensive or threatening. If they are, subjects may refuse to answer or give vague or misleading answers. On the other hand, some legitimate subjects of survey research necessarily delve into personal or potentially threatening or offensive topics. If the survey must venture into potentially threatening or offensive territory, it becomes increasingly important to vet the survey with local experts and to pilot test it prior to implementation.

# **Box 7: Statistical Testing** Source: Barnes & Sebstad. March 2000; p36

Simple statistical tests like T tests (comparing means) or cross tabulations (or chi-squared tests comparing across categories) help to determine if the findings between clients and non-clients or other analytic categories are statistically significant. They also can lay the groundwork for more complex multivariate testing using controls and comparisons or other more sophisticated tests, in cases when the data lends itself to such analysis.

Statistically significant results between clients and non-clients make a plausible case for causation when the data compare the change that has occurred in the client and non-client samples between two time periods<sup>1</sup>.

# **1.15 Baseline Information**

# 1.15.1 Auditors Checklist

#### For ongoing programmes

✓ The programme has collected baseline information and outlined the status of key indicators before interventions have caused any changes

OR

✓ A clear plan is in place to construct baseline information based on good practice (retroactively if necessary)

# 1.15.2 Implementation

In order to predict the changes in indicators as a result of a programme's planned interventions and also to measure the changes over time, the M&E team must know the status of the indicators at the time the intervention starts. This can be accomplished through a pre-intervention baseline study of key variables and measures, or it can be done by a retrospective study that compares the present with a previous point in time in order to assess changes (see below)<sup>21</sup>.

# Pre-Intervention Baseline Study

- **When:** A baseline assessment should be conducted as soon as program participants can be identified, or as soon thereafter as possible. The key is to establish the participants' condition before they have been significantly affected by program activities<sup>22</sup>; assessment should therefore take place after the provider has been chosen but before significant capacity building has taken place<sup>23</sup>.
- **How:** If comprehensive market research has been conducted (see **Section 1.1**), it may not be necessary to gather additional data to measure the status of the indicators; there may be sufficient information from the Market Study/initial market research and analysis<sup>24</sup>. Those responsible for establishing the baseline indicators may therefore wish to take the following steps<sup>25</sup>:
  - $\circ$   $\;$  Determine what data on the indicators is available from previous market research and analysis
  - Based on this data, calculate and record a baseline figure for as many indicators as possible
  - Make a plan to gather any additional data needed to complete calculations, that is not available from previous market research
  - Gather the relevant data e.g. though surveys, interviews, focus group discussions etc. (see **Section 3.1**)

<sup>21</sup> Carolyn Barnes and Jennefer Sebstad. March 2000. Guidelines For Microfinance Impact Assessments. AIMS; p5 22 USAID. 2006. Assessing the Impact of New Generation Private Sector Development Programs, Impact Assessment Primer Series Publication #1; p11

<sup>23</sup> December 2006. Staff Guidelines for Conducting Impact Assessment; Impact Assessment for T-G PEC; p14

<sup>24</sup> Katalyst Bangladesh. May 2008. Impact Management System Manual; p46

<sup>25</sup> Adapted from: Katalyst Bangladesh. May 2008. Impact Management System Manual; p46

- Process the data and calculate the status of the remaining indicators
- Make a record of the status of all the indicators at the baseline

Box 8: Challenges of Using Baseline Surveys

It is likely that there may be a relatively high program departure rate, and that many in the baseline sample may be difficult to locate later (a 20-25 percent non-find rate is considered normal for such studies). This problem is particularly high with respondents in urban areas and/or rented accommodation.

This risk can be minimised can by asking respondents to provide contact information on someone who will know there whereabouts a year later.

#### Establishing a Retrospective Baseline

While quantitative data from two or more points in time are important for measuring or estimating change more reliably, in some cases such a pre-intervention baseline study may not be feasible, for example where the results chain or area of geographic concentration change significantly during implementation.

If a baseline was not established at the time of project design, programmes will need to be innovative. Gathering information from a variety of sources will enable you to triangulate to gain a reasonably accurate picture of the base situation. For example<sup>26</sup>:

- Recall: either in individuals or groups, ask people about their recollection of a situation and what would have happened if there had been no project. However, information that depends on recall over an extended period can be unreliable: "this is especially true for measuring change in areas where recall is weak, or if attitudes, opinions and behaviours are likely to change over time. For example, recall data on income, regular expenditures (e.g., on food) or self-esteem are not very reliable, especially when using a long reference period."<sup>27</sup>
- Written records of partners: BDS providers, BMOs and governments should all have written records of some kind that throw light on where they were at the start of a project.
- Other written and verbal sources: especially in more developed economies, there may be general economic and other data that can be drawn on.

<sup>26</sup> Source: Adapted from SED Working Paper no1 Developing indicators in small enterprise development projects (2001) p31

<sup>27</sup> Carolyn Barnes and Jennefer Sebstad. March 2000. Guidelines For Microfinance Impact Assessments. AIMS; p19

# **1.16 Estimating the Universal Impact Indicators**

#### **1.16.1 Auditors Checklist**

- ✓ Enterprise and/or household level surveys are conducted at regular intervals to measure changes in the universal impact indicators
- ✓ Documentation explains *what* will be measured in order to calculate:
  - Scale of outreach of the programme
  - Net additional income
  - Net additional, full time equivalent jobs
- ✓ Supporting documentation explains *how* each indicator will be calculated using the data measured
- ✓ Any proxy indicators are justified and supported by documented studies

#### **1.16.2 Implementation**

It is likely that most, if not all, of these compliance criteria will be covered by the Measurement System document outlined in **Section 3.1** (for example, please see above for an outline of best practice when carrying out enterprise/household surveys).

However, the universal impact indicators are of particular importance, and therefore warrant more detailed consideration.

Box 9 below gives more in-depth guidance on the measurement of these three universal impact indicators, including data/information collection, sources of information and attribution<sup>28</sup> As always, these guidelines may need to be adapted to fit different markets and interventions. The issue of attribution is covered in more detail in **Section 4** below.

In some situations proxy indicators (i.e. an indicator that does not directly measure a phenomenon but provides an indirect, substitute measure) may be used, as long as appropriate justification is provided. For example, income measures are notoriously difficulty to extract, and it may be that indirect income estimates generate the most reliable income figures. Possible proxies include:

- Tracking an easily remembered input, determining the income earnings per unit of input and computing income by multiplying the two together
- Measuring changes in output, then translating from output to income by imputing a standard profit rate per unit of output<sup>29</sup>

<sup>28</sup> Adapted from: Katalyst Bangladesh. May 2008. Impact Management System Manual; p90-95

<sup>29 1995.</sup> Quantifying Impact of MSE support services at the enterprise level , FIT Programme; p7

Box 9: Measuring Universal Impact Indicators Adapted from: Katalyst Bangladesh. 2008; p90-95

**INDICATOR:** Scale i.e. Number of target enterprises who received a financial benefit as a result of the programme's activities, each year and cumulatively

#### **Data/Information Collection:**

This information can be gathered either from a sample of providers or from a sample of SMEs. Gathering and triangulating the information from both will increase accuracy. A consistent timeframe is used for each measure to ensure the measures are comparable.

#### Attribution:

Attribution should be taken into account here if SMEs might have received a financial benefit anyway. Attribution can be checked either by asking SMEs why they increased service use, or by utilizing an SME control group.

**INDICATOR:** Net additional income accrued to target enterprises, each year and cumulatively

#### Calculation:

Net additional income is calculated as:

Additional profits for SMEs - Additional costs for SMEs

The net additional income is calculated by determining the additional income for a specific time period such as a month or a season, minus the additional costs. In some cases, income increases will change over time. In this case the income increases per time period may have to be estimated separately for each time period.

**INDICATOR:** Net additional, full time equivalent jobs created in target enterprises as a result of the programme, per year and cumulatively

#### Calculation:

Net additional jobs created for an intervention can be estimated differently for agricultural markets and other value chain markets. The approaches outlined below give an example of one possible method of calculation.

*Agricultural markets:* The change in the number of man days of periodic labor needed per unit of land as a result of farmers' changes in behavior is determined. This figure is multiplied by the total amount of land under improved cultivation practices. The total number of additional man days is then converted into FTE jobs (See Box 4). The assumption behind these calculations is that the required number of man days of labor for a particular crop using particular agricultural practices will be the same for all farmers.

*Other value chain markets:* The change in the number of workers required for a unit of production or to run a single machine is determined. This figure is used to calculate the total additional number of workers needed for all affected SMEs. The assumption behind these calculations is that the number of workers required for a unit of production or to run a single machine is the same across all SMEs.

Note: Projects must also provide evidence to show that the jobs created are sustainable. For example, show that it is helping the enterprise meet demand in a growing market (See Section 2.3).

# **1.17 Good Research Practices**

#### 1.17.1 Auditors Checklist

- ✓ The programme can demonstrate that research conducted has conformed to established good practices
- ✓ Those involved in the research (both inside the programme and any external contractors) can explain how the research was conducted
- ✓ Research reports describe the methodology of the research

#### 1.17.2 Implementation

There are a number of areas in which programmes will be expected to comply with current thinking on best practice, including:

- Planning of the assessment design
- Data collection
- Data entry and analysis
- Management of assessments
- Use of existing data sources
- Costs and financing
- Consideration of political economy issues

In addition, programmes should ensure that the approach they take is ethical and fair (see Box 10). For further information and guidance, please see the **Resources** section at the end of this chapter.

Box 10: Research Guidelines and Ethics Source: <u>Miehlbradt and Jones. 2007; p11</u>

It is always important that the research which you conduct is done so in a fair, ethical way that respects those from whom you are gathering data. While many of the critical parameters and guidelines for collected information are context-specific, there are a number of points which should be observed in any research situation:

• Respect Cultural Norms

There are a number of cultural norms which exist in any setting of which you must be aware prior to beginning research. For example, in some contexts cross-gender interviews are forbidden. Identify and have a strategy to adapt your research plan to these norms prior to beginning.

Be Transparent

It is important that all interviewees understand who you are and why you are conducting research. If you are arriving without prior notification to conduct research, be respectful of their other obligations and do not pressure them to participate if they are not willing to do so.

Manage Expectations

It is usually prudent not to promise any specific outcome from your research (such as a new project) that is not certain of happening.

Share Your Results

Market research should not be approached as an 'extractive' process, in which you enter, take information and leave. In discussing problems peoples' problems and gathering their ideas to fix them, expectations are often raised that you will also adopt these suggestions and improve conditions. It is important that after gathering information, you also share the results with interested clients. This not only honours their contributions, it also allows you to gather additional feedback on your analysis.

# 1.18 Income Level of Target Beneficiaries (Recommended)

#### 1.18.1 Auditors Checklist

- Primary or secondary research reports are available which indicate the income level of the target beneficiaries (from all sources) at or near the beginning of the programme or intervention
- ✓ The reports include (at a minimum) the average income and income distribution at of the target beneficiaries
- ✓ The programme defines "poor"
- ✓ The programme explains how the proportion of additional net income accrued to poor people due to the programme will be estimated

#### 1.18.2 Implementation

"While many MSEs are operated by or employ poor people, it cannot be assumed that integrating MSEs into value chains reduces poverty. Not all MSEs involve poor people, and MSEs that do involve poor people may face a different set of constraints in linking to value chains and therefore miss out on these opportunities"<sup>30</sup>. While there is currently a lack of widely applicable, low-cost, easy-to-use methods for poverty assessment, all programmes should aim to have at least a clear understanding of the income level of their target beneficiaries.

Income level is most commonly calculated in one of two ways:

• Using primary or secondary research to collect information on the sources and ranking of household income (see Sections 1.2, 3.1 and 3.4 for more information).

For example, surveys could be used to collect information on:

- o the total number of household members
- $\circ$   $% \left( {{\rm{b}}} \right)$  the number of members who have engaged in business or informal labour in past year
- the number who had salaried employment.

Figures should be tabulated for both participant and control groups, and separately for male and female-headed households.

#### (See Example 3.5a)

• Where direct measurement of household income is inappropriate, proxy measures can be used instead. For example, programmes may choose to construct an index of household socioeconomic status based on indicators of household assets.

In this approach a simple set of yes/no questions on selected assets should be asked, and each response given a weighted score. This can then be added up to give a total household asset score. Based on these scores, households can be classified into wealth quintiles of the

<sup>30 &</sup>lt;u>Sebstad</u>, Jenefer; Snodgrass, Don. 2004. Assessing the Impact of the Kenya BDS and the Horticulture Development Center <u>Projects in the Treefruit Subsector of Kenya: Baseline Research Design; p47</u>

population and used to develop a socioeconomic profile of participants and non-participants.  $^{\rm 31}$ 

In recent years USAID has devoted considerable resources to developing this methodology, and now has certified poverty assessment methods for 12 countries (see Box 11).

#### (See Example 3.5b)

Box 11: USAID Poverty Tools Source: <u>www.povertytools.org</u>

In 2000, the U.S. Congress passed the Microenterprise for Self-Reliance and International Anti-Corruption Act, which mandated that half of all USAID microenterprise funds benefit the very poor. To verify that USAID meets this target, subsequent legislation requires USAID to develop and certify low-cost tools for assessing the poverty status of microenterprise clients, and to require its microenterprise implementing partners to use those tools to measure and report the share of their clients who are very poor. Each USAID-developed Poverty Assessment Tool (PAT) consists of a short, country-specific household survey—administered in twenty minutes or less and a data entry template.

All USAID-certified poverty assessment tools and accompanying training materials are freely available to any user to help measure extreme poverty at the household level. Tools have been developed and certified for 22 countries: Albania, Azerbaijan, Bangladesh, Bosnia and Herzegovina, Colombia, East Timor, Ghana, Guatemala, Haiti, India, Indonesia, Jamaica, Kazakhstan, Madagascar, Malawi, Mexico, Peru, the Philippines, Serbia, Tajikistan, Uganda, and Vietnam.

<sup>31 &</sup>lt;u>Sebstad, Jenefer; Snodgrass, Don. 2004. Assessing the Impact of the Kenya BDS and the Horticulture Development Center</u> <u>Projects in the Treefruit Subsector of Kenya: Baseline Research Design; p35</u>

# 1.19 Qualitative Information (Recommended)

#### 1.19.1 Auditors Checklist

 ✓ Assessment of changes includes qualitative information gathering to explore the character, depth and sustainability of changes at various levels of the impact chain

#### 1.19.2 Implementation

Quantitative information should be supplemented by information on other important issues such as gender, work place conditions, social and environmental impact, and sustainability. Example research questions are given in Box 12 below (please see **Section 3.1** for more information on surveys and other research methods).

Box 12: Addressing other Dimensions of Poverty – Example Research Questions Source: <u>ILO. October 2006; p19 and 23</u>

#### Working Conditions

Questions to ask global buyer.....

- Their position towards labour standards/working conditions down their supply
- chain and Codes of Conduct:
- Does the buyer have *Codes of Conduct* which also affect suppliers?
- Is the buyer member of the *Global Compact*?
- Is the realisation of these codes of conduct controlled?
- Etc.

Questions to ask local producer.....

- Where do producers work? (outside, small rooms, halls, production facilities)
- How do they work? (on the floor, standing, sitting)
- How are the health conditions? (dust, temperature, light, work position, noise, dirt)
- How long do they work? (hours per day, day and night shifts, work begin)
- How does the work environment affect the production process and product quality?
- Etc.

Gender

- Are there any differences between men and women employment?
- Where do women work? Where do men work?
- Do the labour conditions differ (Work environment)
- How do women connect work with family obligations?
- Do women earn less? How do they use their earnings?
- Etc.

# **1.20 Verification of Extrapolated Figures (Recommended)**

#### 1.20.1 Auditors Checklist

✓ A methodology is in place to regularly verify changes in universal impact indicators that are extrapolated from pilot figures

#### **1.20.2 Implementation**

When changes in the universal impact indicators are calculated for large numbers of enterprises using data from small samples or a pilot phase, a method for regularly verifying those changes should be put in place. This might involve:

• Reassessing the small sample on an annual basis

#### 1.21 Resources

#### **Measurement System**

Katalyst Bangladesh. May 2008. In-House Data Collection, Processing and Reporting *In Impact Management System Manual;* Section 8.3 p126-127

Katalyst Bangladesh. May 2008. Measuring Indicators *In Impact Management System Manual;* Section 6.4 p90-96.3 p126-127

T-G PEC. December 2006.Impact Assessment Guides *In Staff Guidelines for Conducting Impact Assessment;* p10-11 and 14-15

USAID. December 2006. Collecting and Using Data for Impact Assessment, Impact Assessment Primer Series, Publication #3.

Judy L. Baker. 2000. Evaluating the Impact of Development Projects on Poverty; A Handbook for Practitioners. World Bank Group. P3 onwards

#### Baselines

USAID. July 2006. Profit Zambia Impact Assessment: Baseline Research Design

#### **Good Research Practices**

Judy L. Baker. 2000. Drawing on "Good Practice" Impact Evaluations *In* Evaluating the Impact of Development Projects on Poverty; A Handbook for Practitioners. World Bank Group. p40

#### **Enterprise/Household Surveys**

World Bank Group. <u>Survey and Analysis Tools</u> **On** <u>Living Standards Measurement Study (LSMS)</u> Includes information on:

- Designing surveys
- Analysing survey data

Margaret Grosh and Paul Glewwe. 2000. *Designing Household Survey Questionnaires for Developing Countries: Lessons from 15 Years of the Living Standards Measurement Study.* Volumes 1, 2, and 3. <u>The World Bank.</u>

#### **Income Level of Target Beneficiaries**

USAID. Poverty Tools

Mark Schreiner, resources on Poverty Scoring: <u>Web resources, including more than twenty national poverty scorecards.</u> June 2007 *Simple Poverty Scorecards,* Presentation. In <u>English</u> and <u>Spanish</u>.

Julie P. Leones and Scott Rozelle, 1992. *Designing Methods and Instruments for Collecting Off-Farm Income Data*, Working Paper, Cornell Univ. Working Papers in Agricultural Economics.

# Attribution

In addition to measuring changes in the indicators, it is also necessary to show what part of those changes resulted from the activities of the programme, and would not have happened otherwise. Every programme must have a clear and reasonable approach to establishing this attribution at every step in the results chain, and therefore in all indicators, particularly the short list of indicators to be applied in all programmes (as listed in Section 2, above); this approach will probably use a variety of tools, rather than a single one. No one method is infallible - including randomised controlled trials.

The few universal impact indicators listed in Section 2, above, should be reported with attribution taken into account. In other words, the final calculation of these indicators should only include changes attributable to the programme, (not all changes since the baseline or previous measurement).

Many programmes cooperate with or complement other programmes (including government programmes) which may also be contributing to change that would not have happened without the programme. In other words, the programme may not deserve exclusive credit for producing the changes calculated even if those changes would not have happened without the programme. In this case, the programme must report the other contributors to the change and outline, as accurately as possible, the total financial value of each programmes' contribution to the change. At this point, this standard does not require parsing out the attributable impact to each individual programme that contributed to the change. Current practice does not attribute impacts according to the contribution from the private sector, even though these may also be substantial.

# **1.22 System for Estimating Attributable Change**

#### 1.22.1 Auditors Checklist

- ✓ The programme can show or describe detailed plans for estimating attribution for individual interventions.
- ✓ The methods used are appropriate to the programme context, and link back to the results chain
- ✓ The methods chosen isolate the programme's impact from the impact created by other programmes working in the same area

#### **1.22.2 Implementation**

Making a case that a particular intervention or program led to an observed or stated change can be done in several ways. Approaches can vary in their level of complexity; the more complex approaches tend to be expensive, to take more time and be outside the capacity of many programmes to fund<sup>32</sup>. A programme must try to balance accuracy and simplicity in addressing these challenges, resulting in a system which is credible both within and outside the programme, and at the same time is manageable for staff to implement.

To estimate what part of total changes are a result of programme activities, staff must gather information and analyze change for each stage of the results chain in the following steps:

- Assess the situation before the project interventions
- Assess changes after the project interventions
- Estimate the amount of change that would have occurred anyway, without the interventions
- Compare the changes that did happen with the estimate of what would have happened without the interventions to isolate the results of the interventions.

In other words, all projects must provide a convincing case to justify why their beneficiaries would not have done equally well, if not better, without the intervention of the project.

Table 3 summarises some of the options that programme staff may use at each step in the results chain; this Table is not intended as a hierarchy as different circumstances will determine which options are more appropriate. The options are not mutually exclusive and a mix or combination is often the best strategy; programmes should have a clear understanding of when, how and for which steps in the results chain each method will be used.

<sup>32</sup> Carolyn Barnes and Jennefer Sebstad. March 2000. Guidelines For Microfinance Impact Assessments. AIMS; p5

Method	Application	Advantages	Disadvantages
Opinions of key	May be important when	Low cost	May be influenced by
informants and	the key change is driven		interviewer; likely to be
expert interviews	by one person (e.g.		somewhat subjective.
	politician changing a		
	policy)		
Comparison of	When samples are large	Held by statisticians to	Difficult to design and administer
treatment and	enough - in measuring	be the most reliable	if the treatment group is self-
control group	changes attributable to	way to measure	selecting (e.g. buying a service).
(randomised	one step in the results	results (albeit based	In that case, a randomised
samples)	chain (probably not	mainly on experiences	sample would need to be refused
	feasible for the whole	with simple / single	a service they tried to purchase
	model in one trial)	treatments)	
Quasi-experimental	Often appropriate for	More approximate, in	Cheaper than randomised
design (difference of	pilot efforts and/or	acknowledging that	controlled trials, but still
difference -	measuring attributable	the control group is	expensive. Careful design and
comparing before	changes for one step in	not an exact control	measurement needed to ensure
and after for	the results chain		accuracy. Not valid when the
treatment and			target group is unique, as is often
control groups)			the case with large urban
			clusters, or when interventions
			can influence the control group
			as well as the treatment group.
Participatory	Where the change in	May be the only way	May be subjective, open to bias
approaches (focus	behaviour might have	to show attribution in	(e.g. high subsidies may attract
groups etc.)	been caused by different	some cases	positive ratings, even though not
	factors		sustainable)
Observation	Where attribution is fairly	Low cost	May not be perceived as
	clear (e.g. resulting from		convincing – especially where
	new technology)		attribution is not obvious
Regression Analysis	Where a wide range of	Can be reasonably	High level of skill needed;
	data can be accurately	accurate if well	Accuracy relies on identifying and
	gathered	designed and executed	gathering data on other
			significant factors contributing to
			the change
Extrapolation of	Where funds are not	Low cost, relatively	Needs periodic verification by
attribution proven in	available for large-scale	convincing	other means (e.g. through
pilot or case study	measurement		surveys or additional case
-			studies)
Trend analysis	Where other, larger	Takes into account	Risks assuming that the identified
	trends are very significant	larger economic and	and measured trends are the
	and trends can be	market trends;	only (or main) ones applicable;
	reasonably tracked and	relatively low cost	best used, therefore, in
	estimated		combination with other methods
Case studies	Where qualitative	Low cost; can be a	Many not represent the universe
analyzing behaviour	understanding is needed,	good indication of	of beneficiaries; can be time
		-	
and performance	in order to interpret	attribution if well	consuming; may be influenced by
	in order to interpret quantitative data	designed and executed	interviewers

Table 3: Estimating Attribution

# **1.23 Attribution in Universal Impact Indicators**

#### 1.23.1 Auditors Checklist

- ✓ The programme has document(s) that clearly and transparently explain how attribution is taken into account in the calculation of the universal impact indicators
- ✓ All assumptions and estimates made in calculating the universal impact indicators are clearly described and justified with reasonable evidence

#### **1.23.2 Implementation**

See Section 4.1.

# **1.24 Collaborating Programmes**

#### 1.24.1 Auditors Checklist

✓ All public programmes (donor and government) with which the programme has a written agreement outlining collaboration, and which have contributed to the attributable changes claimed, are acknowledged in writing

#### 1.24.2 Implementation

Many activities are implemented in partnership with other actors, meaning that programmes cannot take sole credit for all changes resulting from interventions. Even if the changes would not have happened without project, they also would not have happened without other partners.

Collaborating programmes should therefore be acknowledged in writing, alongside the impact being claimed.

# 1.25 Financial Contribution of Collaborating Programmes (Recommended)

#### 1.25.1 Auditors Checklist

- ✓ The financial value of the contribution of collaborating programmes is identified in writing
- $\checkmark$  Where the financial value of their contribution is estimated, the basis for the estimate is outlined

# 1.26 Adjusting Attributable Change (Recommended)

#### 1.26.1 Auditors Checklist

✓ Change attributable to the programme is adjusted based on the relative financial value of the contributions to that change from all involved public programmes

# 1.27 Private Contributions (Recommended)

#### 1.27.1 Auditors Checklist

✓ Private contributors to the changes claimed by the programme are acknowledged in writing together with the estimates of impact

## **1.28 Resources**

Katalyst Bangladesh. May 2008. Measuring Key Indicators for Value Chains *In Impact Management System Manual;* p90-92

Carolyn Barnes and Jennefer Sebstad. March 2000. *Guidelines For Microfinance Impact Assessments*. AIMS; p4

USAID. December 2006. Methodological Issues In Conducting Impact Assessments Of Private Sector Development Programs, Impact Assessment Primer Series, Publication #2; p5

<u>Oldsman and Hallberg. 2002. Framework for Evaluating the Impact of Small Enterprise Initiatives;</u> p17-24

# Capturing Wider Change in the System or Market

Because many PSD programmes aim to affect entire systems or markets, benefits are likely to be wider than just among the direct recipients or partners; this may be, for example, because the overall environment has improved or because other enterprises or organizations (at various levels of the results chain) copy the innovators and early adopters. This effect is sometimes called "crowding in" or "copying" or "spontaneous replication"; the results achieved in this way are often not measured, thereby under-stating achievements by a substantial margin and reducing the incentive to sustainably change systems to benefit target beneficiaries.

The research to measure this effect should be appropriate to the size of the programme; a small programme, for example, may provide evidence from a handful of focus group discussions, a series of in-depth interviews or a reasonable number of case studies. Larger programmes might be expected to conduct surveys. Evidence of this effect should include not only evidence of a change in enterprises reached indirectly but also evidence of attribution to programme activities. As above, an appropriate method, or combination of methods, to establish attribution, given the programme size and circumstances, should be chosen and explained (see **Section 4** for more information on measuring attribution).

In addition, changes at one point in a market or other system are very likely to produce changes indirectly at other points, for example through forward and backward linkages. Programme managers may, but are not required to, include impact produced by changes at other points in systems, if reasonable evidence can be provided; this evidence must include evidence of attribution to programme activities.

As more work on measuring market-wide effects in PSD programmes is done, further, more specific guidance may be provided in this standard.

Note: The issue of displacement is addressed in Section 1.5

# 1.29 'Crowding In' and 'Copying' (Recommended)

#### 1.29.1 Auditors Checklist

- ✓ The programme has a documented description of how the results of systemic change, such as "crowding in" and "copying", will be assessed at the enterprise level and any other relevant levels of the results chain(s).
- ✓ The methodology used takes attribution into account.

#### **1.29.2 Implementation**

Note: Please refer to **Section 1.4** for notes on how to incorporate 'crowding in' and 'copying' into the results chain.

When systems around the poor change, it is not always easy to identify who has benefited and who has not. Some people may benefit directly. Others may benefit indirectly – for example, when they copy behaviours of those that benefited directly or when they are further downstream from the intervention<sup>33</sup>. For example:

- As a result of a program helping specific agricultural input suppliers start up pesticide spraying services, other agricultural input suppliers start up this kind of service without input from the program. This is known as *crowding in*.
- A shoe making entrepreneur sees that his neighbour has improved the quality of his shoes; he copies the quality improvements and so also gets higher prices for his shoes. This is known as *copying*.

Staff should therefore always be on the lookout for wider systemic change, either positive or negative. Questions about 'copying', 'crowding in' and unintended impacts should be included in information gathering with market players.

Projects should focus on one or two key points in the results chain where wider systemic change is most likely to be significant. However, all examples of 'crowding in' or 'copying' must be both measurable and attributable, and any assumptions must be clearly justified.

The Katalyst Programme in Bangladesh has developed some common assumptions for copying; these are ratios that indicate how many enterprises can be expected to copy an enterprise that changes behaviour and performance. For example, Katalyst assumes that for each farmer reached directly, two other farmers change their behaviour and performance as well<sup>34</sup>. In all cases, the use of such ratios must be clearly justified by supporting research.

<sup>33</sup> Katalyst Bangladesh. May 2008. Impact Management System Manual; p6

<sup>34</sup> Katalyst Bangladesh. May 2008. Impact Management System Manual; p35

# **1.30 Including Results of Systemic Change (Recommended)**

#### 1.30.1 Auditors Checklist

- ✓ The results of systemic change, such as "crowding in" or "copying", are estimated using quantitative indicators
- ✓ All figures are supported by clear and transparent calculations; any assumptions or estimates are outlined.
- ✓ The methodology used enables programmes to distinguish between enterprises reached "directly" and those reached "indirectly" (i.e. as a result of systemic change)

#### **1.30.2 Implementation**

See also Section 7.3.

# 1.31 Other Indirect Impacts (Recommended)

#### 1.31.1 Auditors Checklist

- ✓ Any reported findings on indirect impacts beyond the results of systemic change included in the results chain(s) are supported by reasonable and documented research that considers attribution of changes to programme activities
- All impact figures related to indirect impact beyond the systemic change included in the results chain(s) are supported by clear and transparent calculations and outline all assumptions and estimates made

### **1.32 Resources**

Katalyst Bangladesh. May 2008. Changes in Markets In Impact Management System Manual; p34

<u>Alexander Miehlbradt and Mary McVay. 2006. Systemic Change</u> *In The 2006 Reader – Implementing Sustainable Private Sector Development: Striving for Tangible Results for the Poor*. ILO. Section 8 p80

# **Relating Impacts to Programme Costs**

In order to judge and improve the efficiency of programmes, results must be related to the costs of achieving them. Therefore, programmes must also keep track of the costs for inputs required to achieve the impacts stated. In principle, all relevant costs should be included, such as:

- Direct costs
- Overhead costs incurred in country
- Design costs, including preliminary studies to inform the programme design
- Implementation costs
- Monitoring, evaluation and impact assessment costs
- Management and administrative costs incurred in-country

Programmes should not include costs incurred by their home office in another country. However, costs incurred by HQ representatives while in-country (such as when conducting evaluations) should be included.

The costs should be calculated on a comparable basis; however, donors currently employ a range of formats for monitoring programme costs; some formats are more inclusive of overheads and other costs, than others. In the medium term, the DCED may play a role in achieving some uniformity of reporting of costs. Meanwhile, programme managers may anyway not have access to information about some costs that might otherwise be attributable to their programme (e.g. headquarters supervision costs) and these cannot therefore realistically be included.

Total programme costs should be reported, but with a list of which costs are included, and which are not. Where possible, the breakdown of costs by category should be shown to the auditor, but does not need to be published; also where possible, the reported costs should be based on published numbers (e.g. from the budget given in the programme document).

Programmes are encouraged to separate costs by major activities or interventions of the programme in order to provide useful management information. When programmes divide their costs into different groups of activities, they must also divide the reported results of those activities in the same way; they may therefore report either for the programme as a whole, or for subsets of the programme (e.g. by value chain).

# **1.33 Tracking Costs**

#### 1.33.1 Auditors Checklist

- ✓ An accounting system is in place to track costs and produce an annual and cumulative total of all costs spent in-country
- ✓ The programme has an annual and cumulative total of all costs spent in-country (See Example 6.1)

#### 1.33.2 Implementation

All projects should report total programme costs and explain as fully as possible what this total does and does not incorporate. All relevant costs should be included, for example:

- Direct costs
- Overhead costs incurred in country
- Design costs, including preliminary studies to inform the programme design
- Implementation costs
- Monitoring, evaluation and impact assessment costs
- Management and administrative costs incurred in-country

Note: the auditor will need to see breakdown of programme costs, to check that all relevant aspects have been included. However, this breakdown will not be made publically available.

# 1.34 Allocating Costs (Recommended)

#### 1.34.1 Auditors Checklist

- ✓ The accounting system enables management to estimate costs spent on each major intervention of the programme for which impact is estimated
- ✓ The programme has annual and cumulative estimates of total costs for each intervention for which impact is estimated

#### **1.34.2 Implementation**

Large projects with numerous interventions / activities should apportion costs to individual value chains as closely as possible.

# 1.35 Relating Impacts to Costs (Recommended)

#### 1.35.1 Auditors Checklist

✓ Documents include a clear description of how programme impacts will be related to programme costs

#### **1.35.2 Implementation**

Whether impacts and cost are reported per project or per intervention, the ratio used must remain comparable (i.e. Project impact/project cost or value chain impact/value chain cost).

# **Reporting Results**

Ultimately, the findings of results measurement exercises should be communicated clearly to funders and to the wider development community. The transition to a credible and comparable results measurement system does, however, carry risks - for example, that early adopters might be penalised rather than rewarded. This is particularly true where the measurement process is complex, and no-one is yet accustomed to interpreting the numbers generated, in their appropriate context and against appropriate benchmarks.

It is therefore proposed that the initial results not be communicated to a wider audience, in ways that can be attributed to individual programmes. Instead, they should be aggregated, and reported as a range, or anonymously. This will enable the wider development community to consider how to act on such numbers, in a more general way; such is the enthusiasm to obtain any quantified information on impacts, that early experience suggests that donors and others do not adequately consider the complexities of the situation before using any numbers that are available - without for example including the necessary provisos and qualifications.

Individual programmes remain free, of course, to communicate their own measurements and data in any way they deem appropriate.

# **1.36 Annual Impact Estimates**

#### 1.36.1 Auditors Checklist

#### For programmes more than one year old:

✓ The programme has a report(s) produced in the last year which provides clear estimates of the changes in the universal impact indicators due to the programme

For programmes less than one year old:

✓ The programme's documented system describes how reports estimating changes n the universal impact indicators due to the programme will be produced at least annually

#### For all programmes:

- ✓ Estimates are for aggregated programme-wide impact
- ✓ The aggregation takes overlap in impact into account in a clear and reasonable manner
- ✓ The reported figures are accompanied by an appropriate summary of how the figures were generated including how attribution was taken into account and any assumptions and estimates made (see for example Sections 3.3, 4.2, 5.3)
- ✓ The reported figures are accompanied by a definition of "target enterprises" (see Section 2.2)
- ✓ There is a written explanations of why the changes in net income and jobs are likely to be sustainable (see Section 2.3)

#### **1.36.2 Implementation**

The majority of the work required to meet these criteria has already been covered in other parts of the Standard – please see the relevant Section for more information. This Control Point aims to ensure that the results of this work are clearly documented, and that the programme's impact findings are presented in a clear and transparent manner.

# 1.37 Gender Disaggregated Data

#### 1.37.1 Auditors Checklist

- ✓ When impact is reported, figures for the universal impact indicators are disaggregated by women and men
- ✓ Figures are accompanied by a clear explanation of how gender was determined
- ✓ Where figures are not disaggregated, justification is provided of why this is not possible or appropriate

#### 1.37.2 Implementation

In order to meet this criteria, gender issues must be incorporated from the earliest stages of a project, as surveys/interviews/etc must have been tailored to collect the necessary information.

The most appropriate means of disaggregating data by gender will vary for the three common goal level indicators;

- SCALE Data should be divided to show the relative numbers of male- and female-owned SMEs.
- INCOME Data should be divided to show the additional net income of male-owned SMEs compared to that of female-owned SMEs and male workers compared to female workers.
- JOBS Data should be divided to show the number of FTE jobs that went to men, and to the number of FTE jobs that went to women.

In all cases projects should explain how the 'male' and 'female' categories have been defined – this will be particularly important when dealing with family-owned SMEs.

As well as presenting disaggregated results, projects should explain their data, within the relevant social context. Where data is NOT disaggregated by gender, appropriate justification must be given. This may be the case when gender is not a key factor in determining poverty status.

# 1.38 "Direct" and "Indirect" Results

#### 1.38.1 Auditors Checklist

✓ When impact is reported, estimated results for the universal impact indicators are appropriately divided into "direct" and "indirect" impact

#### 1.38.2 Implementation

See Section 5.2/5.3

# 1.39 Reporting Costs

#### 1.39.1 Auditors Checklist

✓ Annual and cumulative totals of costs spent in-country are reported in at least one impact report in the last year

# 1.39.2 Implementation

See Section 6

# 1.40 Reporting Per Intervention (Recommended)

#### 1.40.1 Auditors Checklist

✓ The report(s) related to 7.1 above include impact and total related costs together per intervention

#### **1.40.2 Implementation**

See Section 6.2

# 1.41 Publishing Results (Recommended)

#### 1.41.1 Auditors Checklist

✓ A document with the results and costs described in Sections 7.1-7.4 is made publicly available

# **Results Measurement System Management**

The process of measuring results should be integrated into all aspects of programme management, from design through implementation to monitoring and evaluation. Indeed, the achievement of results should drive everything that programme staff do, orienting their efforts and guiding their decisions. This also requires clear responsibilities, adequate planning, appropriate skills and sufficient human and financial resources.

While the measurement of results enables managers to allocate resources and rewards according to performance, the complexity of the measurement process means that managers must also consider how to encourage objectivity and honesty in staff. This is particularly true during the introduction of a results-based process, while all involved are learning how to use the numbers generated, in appropriate ways. For example, it will take time to benchmark numbers in relation to their context, and to learn how best to interpret them in the light of factors that cannot be quantified.

# 1.42 Responsibilities and Human and Financial Resources

#### 1.42.1 Auditors Checklist

- ✓ Tasks and responsibilities in relation to results management are documented (See Examples 8.1a, 8.1b and 8.1c)
- ✓ The programme can show that sufficient financial resources have been set aside for results measurement
- ✓ Staff are able to accurately describe their responsibilities in results measurement

#### 1.42.2 Implementation

1. Determine Impact Assessment Budget

Projects should ensure that they are realistic about the financial and human resources that will be taken up by impact assessment, and that their methodology is tailored to the resources available.

#### 2. <u>Allocate Major IA Responsibilities</u>

The size of the team needed to carry out a comprehensive impact assessment will vary significantly depending on the size and scope of the programme involved. However, key responsibilities are likely to include:

- Setting up systems including designing systems, installing system and training staff to use system
- Developing and updating results chains and indicators
- Developing plans for indicator measurement
- Designing specific information gathering activities
- Implementing specific info gathering activities: collecting data, data entry and cleaning, data analysis, report writing, managing this process, quality control such as supervising all aspects, back checking etc.
- Overall system management and supervision

A project must first decide which of these tasks will be done in-house by project staff and field researchers, and which will be outsourced to a research firm (see Box 12). Often all information gathering is done in-house except formal surveys, but other information collection activities can be outsourced with reasonable justification. If a task is to be carried out by the project itself, decide which individual/team will be responsible. The break down of tasks and responsibilities, including those that will be outsourced, should be clearly outlined in the Measurement System Report (see Section 3.1 and Example 8.1a).

#### 3. <u>Write Terms of Reference</u>

Whether IA tasks are outsourced or kept in-house, clear ToRs or job descriptions will be needed for all involved **(See Example 8.1b)**. However, these ToRs will contain many of the same pieces of information as the Measurement System Report, for example<sup>35</sup>:

<sup>35</sup> Katalyst Bangladesh. May 2008. Impact Management System Manual; p128

- The sample size and the sampling strategy:
  - How many respondents there are
  - Who the respondents are
  - How they will be chosen and contacted
- Information needed: a clear list of all the information to be gathered, including
  - Data on the indicators
  - Information to gauge sustainability
  - Data to gauge crowding in or copying
  - Information to explore attribution
  - Any other information needed
- Expectations for the questionnaire: The actual questionnaire may be prepared together with the project but expectations for what it will include and how long it will be are included in the TOR.
- Expectations for the data collection planning and implementation:
  - List of tasks for the research firm (see Box 13)
  - List of support the programme will provide to the research firm
- Expected human resources needed
  - o Locations for data collection
  - Expected dates and deadlines for data collection and recording, data processing and report writing
- Expectations on quality control:
  - $\circ$   $\;$  Who will supervise data collection recording and processing
  - How the supervision will be done
  - Plan for back-checking a percent of the interviews
- A detailed outline of the expected findings report: including
  - Summary of the methods
  - Format for summary of data collected
  - o List of indicators to be calculated and how they should be calculated
  - o List of figures and tables expected

Note: Copies of all ToRs related to IA should be appended to the Measurement System Report

#### **Box 13: Suggested Data Collection Tasks for Research Firms** Adapted from Katalyst Bangladesh. 2008; p128

- Writing the questionnaire
- Testing the questionnaire
- Revising the questionnaire
- Preparing data collection forms
- Preparing a data processing system
- Engaging interviewers
- Training interviewers
- Collecting and recording data

- Supervising data collection and recording
- Cleaning and processing data
- Preparing a report
- Presenting the study and findings
- Delivering the raw data and report
- Reporting regularly to programme on progress

#### **1.43 Resources**

Katalyst Bangladesh. May 2008. Outsourcing Data Collection, Processing and Reporting *In Impact Management System Manual;* Section 8.4 p128

Katalyst Bangladesh. May 2008. Roles and Responsibilities for the Katalyst Impact Management System *In Impact Management System Manual;* Annex D

# D. Glossary

**Note:** Where possible, the definitions given below are in line with the *Glossary of Key Terms* developed by the DAC Network on Development Evaluation<sup>36</sup>. Definitions taken directly from the DAC Glossary are *given in italics*. In many cases, further detail has been added, in order to give the level of specificity required for the purpose of this methodology.

- Activity: A discrete piece of work, typically represented by a contract between the programme and a contractor, partner or consultant. Interventions typically consist of several activities, that are intended to achieve change at various different points in the overall market system.
- Aggregate: To combine the impact a programme has caused from various interventions; overlap must be taken into account when aggregating impact.
- Assess: To gauge the change in an indicator using either or both quantitative or qualitative methodologies.
- **Assumption:** A supposition or best guess which forms part of the basis for calculation of an indicator value.
- **Attribution:** The ascription of a casual link between observed (or expected to be observed) changes and a specific intervention.

Attribution is isolating the changes that results from programme activities from what would have happened without the programme (therefore, several programmes may justifiably claim the credit for a given result – but clearly should mention the work of other programmes, contribution of the government and private sector etc.). Some programs are already using a more stringent definition of attribution, where they apportion the changes that would not have taken place without the programme to each of those organizations (public or private) that contributed to the change and only claim the programme's "share" of the change.

**Baseline:** An analysis describing the situation prior to a development intervention, against which progress can be assessed or comparisons made.

This should include the status of indicators before an intervention starts or has resulted in changes at the level being measured.

- **Calculate:** To compute the value of an indicator based on several different pieces of information.
- **Collaborating programme:** A public programme (donor or government) with which the programme has a written agreement outlining collaboration and which has contributed to the attributable changes claimed.
- **Component:** A part of a programme that forms a coherent set of interventions, typically around a thematic interest.

<sup>36</sup> http://www.oecd.org/dataoecd/29/21/2754804.pdf

- **Copying:** Other target enterprises copying behaviours that those affected directly by programme activities have adopted.
- **Crowding in:** Enterprises at levels other than the target level copying behaviours that those affected by programme activities have adopted or entering a sector or value chain as a result of improved incentives and environment created (at least partly) by the programme. This term also applies to government agencies or civil society organizations, who are not directly involved in the programme, copying behaviours of those who are directly involved in the programme, or who change their behaviour as a result of improved incentives or environment created (at least partly) by the programme.
- **Direct impact:** Changes that can be plausibly linked in a direct line to an organization or enterprise with which the programme has had significant contact. Direct impact does not include the results of systemic changes such as copying or crowding in.
- **Displacement:** Some enterprises may be negatively affected because others are benefiting from programme activities. Displacement is the amount of negative effect on those enterprises harmed by programme activities.
- **Estimate:** An approximation of the value of an indicator or of attribution based on information gathered.
- **Final:** Assessment of indicators after expected changes have likely occurred. This is the last time particular indicators will be assessed for a particular intervention.
- Impact:Positive and negative, primary and secondary long-term effects produced by a<br/>development intervention, directly or indirectly, intended or unintended.

This standard promotes that impact be expressed in a form that an uninformed observer would understand and relate to.

- **Impact Assessment:** The process of estimating a programme's impact on enterprises, poverty reduction and/or other development goals.
- Indirect impact: Changes caused, at least partly, by programme activities which can not be linked in a direct line to organizations or enterprises with which the programme has had significant contact. Indirect impact includes the results of systemic changes such as copying, crowding in and second order changes resulting from a programme's direct or indirect impact, for example changes in non-targeted sectors or changes in local economies resulting from the increased purchasing power of a programme's target beneficiaries.
- Indicators: Quantitative or qualitative factor or variable that provides a simple and reliable means to measure achievement, to reflect the changes connected to an intervention, or to help assess the performance of a development sector.
- **Information gathering:** The collection of qualitative and quantitative information to monitor the changes resulting from a programme at any level of the programme's results chain and to estimate attribution.

Intermediate indicator: An indicator of change at any level other than the goal or final level.

- **Intervention:** A coherent set of activities that share a single results chain, and are designed to achieve a specific and limited change. An intervention is generally as subset of a component.
- Level: A step in a results chain that refers to changes for a particular group of enterprises or other players; for example, levels in a results chain might include service provider level, enterprise level, sector level and target household level.
- Job: Full-time equivalent, taken over one year (240 days/year); may be seasonal, paid in kind etc, but does not include unpaid family labour.
- **Key indicator:** Indicators that relate to the "key" or most important changes described in the results chain.
- **Key change:** The most important changes described in the results chain. Ideally, a programme assesses changes at every level of the results chain; however, at this stage, it may be too much of a burden for smaller programmes, or those with very detailed or very long results chains to assess changes at every level. In this case, programme may choose to only assess "key changes."
- Measure: To assess the value of an indicator using quantitative methodologies.
- **Methodology:** A means to assessing the value of indicators, for example a survey, focus group discussion or key informant interviews.
- **Overlap:** When two different interventions reach the same target enterprises. If aggregating programme scale by adding up the number of enterprises reach by each intervention, the overlap must be subtracted to arrive at the correct total.
- Poor:MDG1 originally referred to people living on less than \$1 per day, on 1993<br/>purchasing power parity; this has now been considerably expanded see the revised<br/>MDGs. USAID, CGAP and others are working on country-specific baskets of poverty<br/>indicators. Many countries have their own definition.
- **Primary research:** Information gathering directly from respondents (enterprises, service providers, government agencies etc.) in the field.
- **Private contributor:** A private enterprise that has contributed to the impact claimed by the programme.
- **Programme:** A programme is the typical unit of analysis for a donor, often contracted to one overall partner or company. A programme consists of several components.
- **Projection** A reasonable estimate of future results, based on current, informed knowledge about the overall system.
- **Proxy indicator:** A measurable change that is clearly and reliably associated with the change the programme aims to achieve.
- **Reasonable:** A conclusion that an external, unbiased and relatively informed observer would come to.
- **Results Chain:** The causal sequence for a development intervention that stipulates the necessary sequence to achieve desired objectives beginning with inputs, moving through activities and outputs, and culminating in outcomes, impacts and feedback.

**Results measurement:** The process of estimating a programme's impact on enterprises, poverty reduction and/or other development goals. In this standard, it is synonymous with impact assessment.

Secondary research: Information gathering that relies on existing studies and reports.

- **Survey:** Gathering information from a specific number of respondents in a specific population generally using a set of questions for which the answers can be quantified.
- **Sustainability:** The continuation of benefits from a development intervention after major development assistance has been completed. The probability of continued long term benefits.

(For measurement purposes, sustainability will be indicated by continuation of benefits at least two years after the end of a programme).

Systemic change: Changes in market systems and the structures, such as government and civil society, that support markets that cause sustainable shifts in the way those market systems and structures operate, for example, changes in relationships within and among both private enterprises and public agencies, in incentives and in market support structures. Systemic change causes widespread indirect results such as crowding in, copying, enterprises shifting sectors and changes in enterprise start-up and exit rates.

Target enterprises: The type of enterprises that a programme aims to benefit.

Target population: The type of people that a programme aims to benefit.

**Unintended impacts:** Any changes that are due to a programme's activities and that were not anticipated when designing the activities. These impacts may be positive or negative.

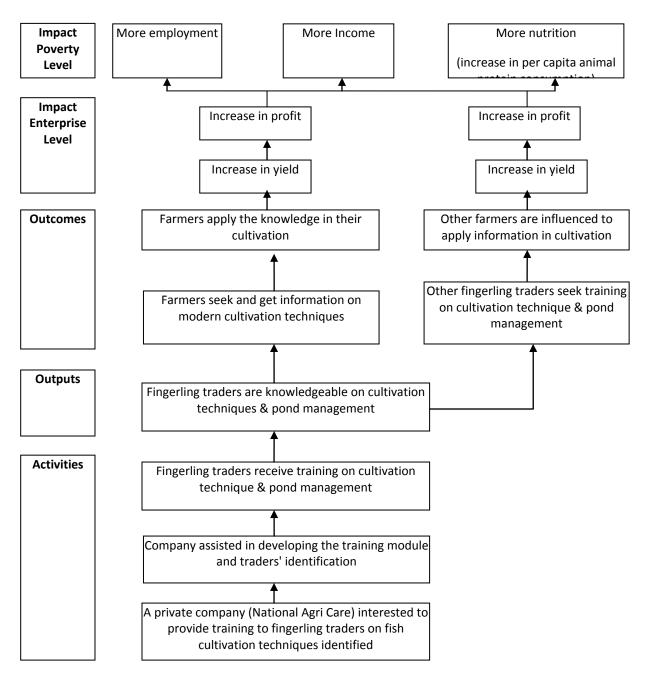
## Annex A.

## Examples

(Note: examples and figures are for illustrative purposes only, and many not represent real projects or programmes)

## **Example 1.1a: Fingerling Traders Training Results Chain**

Source: Katalyst Bangladesh



## Example 1.1b: Summary of Supporting Research; ABC Fingerlings Project

Note: This table outlines the supporting research for a fictional project with a similar results chain to the Katalyst Fingerling Nursery Training intervention shown in Example 1.1.

No.	Вох	Explanation	Sources Used	Displacement	Other considerations
1	Activities	Initial interventions driven by programme			• On fish farms, women
2	Nursery owners are knowledgeable on pond management and motivated to give info	Research shows that nursery owners have a far higher awareness of management issues after attending training Trained nursery owners understand the potential business benefits of giving info to clients	Survey of participants in pilot training scheme	The service market at present is weak, with plenty of room for growth. Displacement is therefore expected to be negligible.	are involved in production and in other important activities such as pond re-excavation, feeding,
3	Farmers seek and get info on pond management	There is a currently large demand for info on pond management from farmers. Nursery owners are an accessible and trusted source of information	Field visits and interviews with local producers		cleaning ponds, guarding ponds during day time, processing, etc. Improvement in
4a	Farmers apply new knowledge to their ponds	Approximately 3/5 of farmers given info on improved management apply this knowledge to their day to day activities	Report on the outcomes of a similar project in the Philippines milk fish sector		the pond fish sector are therefore expected to benefit both men
4b	Farmers increase yields/reduce costs	Farmers who use correct mix of feeds (as advocated by nursery owners) have an average yield 20% higher than those who do not.	Pond fish sector market study, 2007	The demand for fish is growing at a rate of 15% a year; the market is not saturated,	and women. • Farmer training should
4c	Farmers increase profits	The pondfish market is growing rapidly; farmers with an increased yield can therefore increase their income by selling larger quantities of fish, without triggering a drop in market prices	Pond fish sector market study, 2007	therefore displacement will be negligible.	lead to a reduction in overfeeding and inappropriate use of chemicals; the local
5	Increase in fish cultivation in the area	An increase in farmer income can be expected to encourage an increase in fish cultivation in the area.	Report on the outcomes of a similar project in the Philippines milk fish sector	Positive and negative effects on other sectors are too complex for consideration by this project.	environment should therefore benefit from the intervention.
6a	Additional employment	For every 20 hectare increase in cultivation area, an average of 2 new jobs will be created	Pond fish sector market study, 2007	Impact figures will take into consideration any benefits	<ul> <li>Management training will include</li> </ul>
6b	Increased income	Increased profits will lead to increased income for the farmer.	Pond fish sector market study, 2007	forgone by individuals in return for work in the pond fish sector	information on ensuring health and
6c	More nutrition	Income growth leads to improved nutritional status.	IFPRI research	e.g. by those who have ceased to work in a different sector.	safety of all employees.

### Example 1.3a: Katalyst Six-Month Market Review - An Overview

Source: Katalyst Bangladesh. May 2008. Impact Management System Manual; Section 9.3 p139

Note: In order to meet the DCED Standard, this report would need to include additional information on the system for stakeholder consultation.

#### Purpose:

- 1. Review market and intervention strategy
- 2. Review progress of ongoing and closed interventions during the previous six months
- 3. Plan interventions for the next six months
- 4. Analyze and learn from M&IA findings
- 5. Update market and intervention documents (including M&IA documents)

#### Who attends?

- All of the market unit members
- Coordinator or deputy manager, at least part of the time
- Division manager, at least part of the time
- Member of the M&IA team
- M&IA manager

#### How long is the meeting?

The meeting can take several days.

#### Meeting Agenda

While there is some flexibility on the meeting agenda, it generally covers the following points:

#### Step 1: Review Market Strategy

Review the market strategy: Are we doing the right things? Based on

#### Market dynamics:

Does the market function as we thought it would and recorded in our Market Plan in terms of players, volumes, dynamics, etc., or are we surprised?

Do we see the market changing?

#### Market vision:

- Is the market potential identified in our vision still valid?
- Can we unlock it by addressing the intervention areas?
- Leverage points (private sector or public sector organizations):

Can we get sufficient outreach?

Do we find enough market opportunities on which to work?

Are we able to hit the right incentives?

• Learning from M&IA information collected over the last six months:

- To what extent are service providers changing their behavior and reaching more SMEs?
- What are the indications that targeted service markets are starting to function or continuing not to function?
- Are there signs of crowding in at the service market level or entry point? If so, to what extent?
- Are there signs of changing practices and/or technical innovation at the enterprise level? If so, to what extent?
- Are there signs of productivity, sales or other performance gains at the enterprise level? If so, to what extent?
- Did we gain new insights in terms of what the key elements for better SME performance are?
- Did we gain new insight in terms of relevant benchmark data and hence maximum feasible productivity or other performance increases?
- Are there signs of increased profitability at the enterprise level? If so, to what extent?
- Are there signs of SME copying, new entrants to the sector and/or increased sector growth? If so, to what extent? Are there signs that the sector becomes relatively more attractive to work in compared to other sectors?

Are there signs of relevance for reaching the very poor, gender equity, ESRB, empowerment of the poor and/or improved working conditions?

#### Addressing outstanding questions/issues:

Have all the questions or issues from the previous six-month market review been addressed? If not, why not? How will they be addressed?

#### Step 2: Prepare to update Market Plan

- Discuss revisions to the market strategy and/or market logic boxes (if necessary)
- Discuss updates to the market logic figures based on new M&IA information (if necessary)
- Discuss updates to the Market M&IA Plan (if necessary)
- Brainstorm new interventions (if necessary)

#### Step 3: Analyze interventions: progress, design and planning

Assess progress in existing interventions; review interventions closed (either activities or monitoring) in the last six months; discuss, design and plan new interventions

 Discuss progress of ongoing interventions: Are ongoing interventions on track? If not, why not? What remedial action is required?

#### Discuss closed interventions:

How did the intervention go? Was it successful? Why or why not?

What were the key results of the intervention?

Has the particular constraint or opportunity been adequately addressed? If not, are more actions required?

What did we learn from the intervention? How might those lessons be applied in this market or other markets?

#### Design and plan new interventions:

What are the new interventions to start in the next six months, and when?

What does Katalyst plan to do under each new intervention? Why?

What are the changes expected at each level for each new intervention? (Draw a rough draft of the intervention impact logics)

Specify if new interventions have a particular relevance for reaching the very poor, gender equity, ESRB, empowerment of the poor and/or improved working conditions

#### Step 4: Prepare to update/write Intervention Plans and Intervention Reports

- Discuss revisions to on-going Intervention Plans, particularly the activities
- Discuss updates to the intervention logic numbers based on new M&IA information
- Discuss updates to the intervention M&IA Plans, particularly dates and methods
- Identify any overdue Intervention Reports and discuss content
- Identify any new Intervention Plans that need to be written and discuss content

#### Step 5: Plan for next six months

- Summarize intervention-related plans for the next six months including changes to on-going interventions, new interventions, and interventions expected to be closed
- Identify any specific questions or issues to be addressed in the next six months
- Outline plans for M&IA activities in the next six months
- Plan to complete all necessary documents (updated Market Plan, updated or new Intervention Plans, Intervention Reports and Market Progress Report); include who will do what by when
- Identify if the market as a whole or particular interventions have good material for:
  - .1. Cases
  - .2. Mini-cases
  - .3. Particular relevance to reaching the very poor, gender equity, ESRB, empowerment of the poor and/or improved working conditions

Plan for another meeting to tackle specific issues identified during the review (if necessary)

# Example 1.3b: Six-Monthly Market Management Meeting: Recording Form

Source: Adapted from Katalyst Bangladesh. May 2008. Impact Management System Manual; p161

Date of Plan:\_\_\_\_\_

**Intervention Plans** 

On-going Interventions					
Int. #	Summary of Changes	Update plan?	Who?	By when?	

Questions/Issues to Address in Next 6 Months					
Question/Issue	Who?	By when?			

M&E Activities in the Next 6 Months						
Activity	Tasks	Who?	By when?			

Document Updates						
Document	Need update?	Who?	By when?			
Market strategy						
Market impact logic						
Market M&E plan						
	Int. #s need updating/writing					
Intervention plans						
Intervention logics						
Intervention M&E plan						
Intervention reports						
Market progress report						

Plan for Further Meetings				
Issue to Discuss	Who will attend?	Date/Time		

#### Summary of Six Month Market Review

Review of Market Strategy:

Analysis of Interventions:

## Example 1.5: Guidelines on Displacement

Source: Katalyst Bangladesh. May 2008. Impact Management System Manual; p33	34

Level of Analysis	What might happen in the market	How displacement is handled	
Service market level	Katalyst may encourage a monopoly by working with just one service provider which will make it more difficult for other service providers Katalyst may help some service providers while others lose out	Only if judged significant: As Katalyst generally works in weak service markets, there is considerable room for growth. Katalyst expects that it is rare for displacement to be significant. However, if the market unit thinks displacement is significant then the effect is estimated and impact figures are reduced accordingly.	
Enterprise level	Enterprises affected by Katalyst benefit and grow; as a result others suffer and shrink	<b>Only if judged significant:</b> Katalyst expects that displacement is not significant in fast growing markets. As markets become saturated, it will become significant. When staff thinks that displacement is significant, then the effect is estimated and impact figures are reduced accordingly.	
	Enterprises switch from another sector to the one Katalyst is targeting	<b>Displacement included:</b> Impact figures estimate the <i>additional</i> income and <i>additional</i> jobs created, in other words the total income and jobs created minus what entrepreneurs and workers were earning in the other sector.	
sector and Market level	As a result of Katalyst helping one sector, a related sector might shrink. For example, the wood sector might shrink as a result of Katalyst helping the plastics sector.	<ul> <li>Only when Katalyst work in one sector affects Katalyst work in another sector:</li> <li>Competition is the basis for growth and development. This issue needs to be considered when choosing sectors. However, this effect will generally not be taken into account in impact assessment because Katalyst also does not take into account when work in one sector benefits a related sector. This level of analysis is too complicated for Katalyst's system to handle. Katalyst will only consider this effect when Katalyst works in one sector affects Katalyst work in another sector.</li> </ul>	
Copying	More enterprises entering a sector may lead to more supply which results in prices dropping and, therefore, less benefit to all enterprises in the sector	Not taken into account: This is a positive change for the economy and will encourage increases in productivity. As Katalyst is working in growing sectors, this effect will probably not be significant in the three year time horizon of Katalyst's measurement. Therefore, it is not taken into account in impact assessment.	

# Example 2.1a: M&IA Plan for Faridur Pond Fish; Indicators and Measures

Source: Katalyst Bangladesh. May 2008. Impact Management System Manual; p112

			Impact logic	Questions	Indicators/Measures
		Box 13	More nutrition	Has per capita consumption of animal protein increased?	Per capita fish consumption increased (number of farm HHs reporting more fish consumption)
Povertv Reduction	гоvегту кеаистоп	Box 12	More employment	How many new people enter into fish culture? How many new laborers are employed in fish culture?	Increased number of new entrants in fish culture (pond acres in use for fish cultivation) Increased number of laborer employed by farms (average # of man days of labor used per pond acre per cultivation cycle)
	_	Box 11	More income	Has farmers' income increased?	Increase in farmers' income (average profits per pond acre per cultivation cycle)
2040 S	Sector	Box 10	Increased cultivation	Has the production of fish increased?	Increases in terms of volume, taka and coverage (kg fish sold in past month; sales in taka in past month)
		Box 8	Increased profit	How much has farmers' profit increased?	Increase in farmers' profit (Sales less costs per pond acre per cultivation cycle)
	es	Box 9	Other farmers are influenced to apply information on pond management	Are other farmers applying information on pond management?	<ul> <li># of other farmers applying information (total number of new farmers applying specific pond management practices in the last cultivation cycle)</li> <li># of other farmers approaching nurseries for information</li> </ul>
	Enterprises	Box 7	Increased yield	How much has farmers' yield increased?	Increase in yield (kg per pond acre per season)
Ent	Ē	Box 6	Farmers apply the knowledge in their pond management	Do the farmers cultivate in a proper manner? Do the farmers achieve higher growth rates for fish? Do the farmers experience a lower mortality rate? Do the farmers use inputs properly?	Fish growth(kg/month harvested) Lower Mortality rate of fish (% fish died per cultivation cycle) % farmers who use inputs properly (with specific definition) % farmers who apply proper cultivation technique (with specific definition)
Service Markets	outcomes	Box 5	Farmers seek and get information on pond management	From whom did the farmers get information on pond management and usage of inputs? What information on pond management and input usage did they get from the nurseries? Are the farmers satisfied with the information? How frequently did they go to the nurseries to get information?	Source of information (# farmers obtaining information by source) % farmers satisfied with the information (% farmers who found the information useful) % farmers understand the benefits of proper pond management and inputs use (% farmers who can cite three benefits of proper pond management) Repeated visit to the retailers (# visits to retailer in last cultivation cycle)
Serv	Outputs	Box 4	Nursery owners' knowledge on pond management improved	Did nursery owners appreciate the training? Do the nursery owners have knowledge on pond management and input usage to disseminate to the farmers? Do nursery owners understand the benefits of giving information?	Nursery owners' satisfaction with training (post training evaluation) Change in knowledge of the nursery owners (post training assessment) Incentive (% nursery owners trained who can cite three benefits of providing information to customers)

		Impact logic	Questions	Indicators/Measures
ctivities	Вох З	Nursery owners are trained in how to embed knowledge and information on pond management during their sales of fingerlings	How many and who are the nursery owners that attended the training program?	Training attendance (# nursery owners who complete the training)
Activ	Box 2	Training module prepared	Has the training module been prepared?	Training module
	Box 1	Potential organization(s)/partner(s) identified	Which organization is interested in providing training to input retailers?	Name of the organization(s) Their network (outreach)

## Example 2.1b: Kenya Study: Framework for Studying Impacts

Source: <u>USAID. December 2006. Collecting and Using Data for Impact Assessment, Impact Assessment Primer</u> <u>Series, Publication #3</u> p3

Levels of Analysis	Domains of Impact	Impact variables	Sources of Information
Tree fruit Smallholder MSEs	Increased integration of smallholder MSEs into tree fruit value chain	Increased sales/marketing linkages Increased price received Increased marketing channels used Increased/improved use of agricultural inputs Increased/improved use of extension services	Survey Case studies
	Improved production processes	Skills, knowledge and practices Use of market information Use of technology Capital investment (tools and equipment)	Survey Case studies
	Improved smallholder MSE performance	Increased revenues Increased productivity Increased employment	Survey Case studies
Smallholder MSE Households	Increased incomes	Proxy measure of increased household Income (consumption/expenditure) Higher ranking of tree fruit income as source of household income	Survey Case studies
	Reduced vulnerability	Diversification of household income sources Income smoothing Increased assets	Survey Case studies
Markets	Provision of commercially viable solutions to recurrent constraints of MSEs in the value chain	Improved and sustainable market access Improved and sustainable input supply Improved and sustainable extension, advisory and information services	Survey Secondary market level information Interviews with buyers (brokers and lead firms), input suppliers, extension service providers
	Growth of tree fruit sub- sector	Increased production Increased productivity Increased employment Increased sales Increased exports Improved inter-firm collaboration	Secondary market level information Interviews with buyers (brokers and lead firms)

## Example 2.1c: Research Plan for the Beef Cattle Sector

Source: USAID. January 2007. Developing a Causal Model for Private Sector Development Programs, Impact Assessment Primer Series, Publication #4; p6

Level of Analysis	Outcome/Impact	Indicator of Change	Source of Information
Sub-sector	Improved animal health	Mortality & morbidity	<ul><li>Secondary data</li><li>Interviews</li></ul>
	Improved quality	Value/animal or per kg.	<ul><li> Interviews</li><li> FGDs</li></ul>
	Improved access to finance	# of financial providers	• Interviews
	Development of vet industry	<ul> <li># of vet services provided</li> <li>Types of vet services provided</li> </ul>	<ul><li>Interviews</li><li>FGDs</li></ul>
	Growth of beef industry	Volume of production	Secondary data
	Increased participation of smallholders	percent of output from smallholders	<ul><li>Secondary data</li><li>Interviews</li></ul>
	Improved quality of smallholder beef	<ul> <li># of animals sold at feed lots</li> <li>Mean weight at sale</li> <li>Calving rate</li> <li>Smallholder beef graded choice</li> </ul>	Interviews
	Improved price for smallholders	Producer price for smallholder as a percent of price received by commercial producers	Interviews
	Improved ability to withstand shocks	<ul> <li>Savings (preferably monetary, but also cattle)</li> <li>Uptake of insurance products</li> </ul>	Interviews
Smallholder MSEs	Increased sales	# of animals sold	Survey
	Increased profits	Value of sales minus cash costs	Survey
	Higher productivity	<ul> <li>Herd size</li> <li>Mortality</li> <li>Mean weight at sale</li> <li>Calving rate</li> <li>Quality (do any move up from standard to choice?)</li> </ul>	Survey
MSE households	Higher income	<ul> <li>Annual income from beef sales</li> <li>Household consumption expenditure per capita</li> </ul>	Survey
	Increasing assets	Stocks of selected household assets	Survey

## Example 3.1a: Research Design: Survey of Smallholders

Source: Adapted from USAID. July 2006. Profit Zambia Impact Assessment: Baseline Research Design; p18

Panels of participating MSEs and the households to which they are related will be surveyed in two rounds. The first or baseline round will take place in May/June 2006, while the follow-up round will be scheduled for two years later. The sample frame for the survey is shown in Table 7.

Intervention area	Participant sample	Control sample
Cotton	Dunavant farmers	Continental farmers
Beef	Communities with vet contracts (actual or anticipated)	List obtained from district livestock officer or community leaders
Retail	Communities where retailers have established relationships	Farmer population (2 stages: villages first, then individual farmers within selected villages)

#### TABLE 7. SAMPLING FRAME FOR SURVEY

From the populations defined in Table 7, samples of program participants and matched nonparticipating smallholders will be drawn. Where possible, participants will be drawn from lists of participants provided by PROFIT or its implementation partners. Non-participants will be drawn from separate districts that are matched to the districts of participants in terms of agricultural activities and size of smallholdings. The control cells (in districts that PROFIT will not enter in the coming two years) will be geographically separated from the participant cells so as to minimize "spillover" of project benefits to non-participants (although it will not be possible to preclude spillover). Nonparticipants will be matched to participants on a limited set of variables including type of agricultural activity, size of landholding, gender of farmer, location, and (to the extent possible) poverty level.

The follow-up survey will revisit as many of the respondents from the baseline round as possible. Accordingly, information must be collected in the baseline that will facilitate finding and identifying respondents for the repeat interviews. Another implication of the panel approach is that some over-sampling in the baseline round is advisable, since there inevitably will be some attrition between survey rounds as respondents from the baseline round die, move away, change their lines of business, or decline to participate. To obtain results at a meaningful level of significance, the sample should include at least 1,200 smallholder MSEs at the end line. Anticipating attrition of 20 percent, the baseline survey should cover at least 1,500 respondents.

To facilitate surveying, respondents in the participant and comparison group samples will be concentrated in pre-selected districts. The participant samples will be drawn in selected districts served by PROFIT. The comparison samples will be drawn in different districts regarded as similar in significant ways (for example, in the same ecological zone) to the intervention districts. Since cotton growing, livestock rearing, and retail input supply are all widespread activities in Zambia, an abundance of potential control groups is available. PROFIT cotton interventions will take place in Central and Southern Provinces initially, and later in Eastern Province. Beef interventions will also be in Central and Southern Provinces initially, and later in Western Province. Retail service interventions will take place in central and Northwest Provinces. Table 8 shows the districts that have been selected as appropriate sites for participant and control surveys..

#### TABLE 8. DISTRICTS PROPOSED FOR SURVEYING

Sub-Sector/Region	Participant Sample Site	Control Sample Site
Cotton	Choma (Southern)	Monze (Southern)
Beef	Kalomo (Southern)	Choma (Southern)
Retail input supply	Mkushi (Central)	Chibombo (Central)

In principle, each of these samples should consist of randomly selected representatives of their respective populations (e.g., participating cotton growers in Choma District). Lists of program participants can be used to draw participant samples where such lists exist. There may be no such list for some participants, and censuses of control groups are unlikely to exist. Accordingly, means must be devised to draw up lists from which the survey samples will be drawn. One possibility is to use the "walking method," which involves selecting control group respondents located in some predefined geographic relationship to participant group sample members (e. g, the third farm to the west of a participant respondent's farm). Small deviations from strict randomness are, however, permitted for practical reasons. For example, enumerators need not travel several miles to interview a single respondent. Care must be taken, however, to ensure that significant bias is not introduced in this way. It is NOT acceptable to select a sample purely on the basis of interviewing convenience, since this might introduce a "main road bias" as only the relatively better-off farmers near the main arteries are included in the survey.

In the baseline round, each of the three participant samples should consist of 300 respondents. The control group sample size in the baseline round will be 200 in each district, for a total of 1,500 respondents in all in the baseline survey.

In picking districts for inclusion in the survey, attention was paid to the potential cost of field operations, as well as to the need to avoid having to work in too many languages. According to local intelligence, the selections proposed above will require the use of three languages: English, Bemba, and Tonga. Questionnaires will be written in English, translated into Bemba and Tonga, and then back-translated to ensure accuracy.

As indicated in Tables 4-6 (above), the survey will be the primary means of measuring impacts at the firm and household levels. It will therefore collect data on:

- Enterprise sales and profits
- Productivity
- Household income
- Household assets
- Household poverty status

Because of anticipated difficulty in obtaining direct measures of enterprise profits and household income, proxies will be used. In the case of profits, identifiable purchases of inputs and services as well as payments for hired labor and taxes (if relevant) will be deducted from reported sales to obtain a figure for gross profits. No deduction will be made for household labor or depreciation on any equipment that may be used. Instead of asking sensitive questions about household income, consumption data will be collected. We will also collect information on household assets and investigate the possibility of using this information as a proxy for income.

The baseline survey will provide information about the values of the impact variables in sampled enterprises and households that prevailed early the project's implementation history. Comparison of

the results for the participant and control samples will also afford an opportunity to analyze potential mediating variables – influences on individual values of the impact variables other than program participation. The findings of this analysis will be used to make appropriate allowances for mediating variables when the time comes to measure the program's impact through the interventions studied.

Basic descriptive tables will be assembled from the data obtained in each survey round. These tables will contain three types of information:

- Descriptive information on the respondents (managers of smallholder MSEs)
- Information on the smallholder MSEs included in the survey
- Information on the households associated with the samples smallholder MSEs

A detailed analysis plan has been prepared, describing the tabulations to be performed in each of these categories. Grouped data displayed in the tables will be backed up by raw counts that show the full (ungrouped) frequency distributions so that alternative analyses can be performed if indicated.

Following tabulation of the survey data and examination of the pre-defined tables, additional crosstabulations and correlations will be specified, for example to determine the relationship between personal or household-level variables and enterprise-level impact variables. The database will be organized to make such inquiries easy to perform.

## **Example 3.1b: Scheduling When to Measure**

#### Source: Katalyst Bangladesh. May 2008. Impact Management System Manual; p24-25

Katalyst aims to create a lasting basis for growth. Impact does not happen only at one moment, but continues over time. It also takes time before substantial impact on enterprises and poverty is visible. Katalyst managers think that in most cases, enterprise and related poverty reduction impacts become visible between one and three years after an intervention. Certain types of impacts will continue after this, but the longer the timeframe, the more difficult it is to isolate the impact of the project from other factors in markets.

For simplicity, Katalyst assesses and estimates its poverty reduction impact only for three years after starting an intervention. Therefore, indicators are only measured during this timeframe <sup>37</sup> taking the following into consideration:

- Assessment of changes at the service provider and enterprise levels are scheduled at points in time when significant impact can be expected
- Direct change at the service market level can often be expected quite soon after an activity is completed. Crowding in takes longer.
- Change at the enterprise level usually takes longer at least one business cycle after enterprises have used more or better services
- Assessment of changes at the service provider and enterprise levels may happen once or several times but does not continue beyond three years after an intervention is started
- Changes at the sector and poverty levels are generally measured every two years at the market level

The following table summarizes the typical schedule of assessments:

Level of Assessment	Typical Schedule
Service Markets	Shortly after activity is completed – assess one or several times up to three years
Enterprises	At least one business cycle after services used – assess one or several times up to three years
Markets	Every two years at the market level
Poverty Reduction	During three years after starting an intervention – every two years at the market level

<sup>37</sup> Only in very exceptional cases does Katalyst assess or claim impact beyond three years after an intervention starts.

### Example 3.4a: Sample Terms of Reference: Household Survey

*Source:* <u>Judy L. Baker. 2000. Applying Analytical Methods for Impact Evaluation: A Case Study In Evaluating the</u> <u>Impact of Development Projects on Poverty; A Handbook for Practitioners. World Bank Group. p178</u>

# Note: The following example outlines a system for conducting household level surveys. In order to comply with the DCED Standard, projects would also need to include reports of any surveys that have already been carried out, and details of their results.

Household data will be collected by using a precoded schedule. This will be drafted on the model of the Living Standards Surveys used in more than 30 countries. A first draft will be provided by researchers from the World Bank. However, the instrument will be both abridged to accommodate the particular needs of the project and adapted to local conditions by using focus groups and a pretest procedure undertaken by the firm. The household questionnaire will contain modules to collect data on:

- Sociodemographic characteristics: A roster of individuals residing in the household in the past 12 months, their age and gender, as well as their schooling and type of employment (if any). The coding format will indicate the parents of all children, if present—if not present, whether the parents are still living. A detailed list of assets will be collected to serve as an indicator of socioeconomic status.
- 2. Knowledge, attitude, and practices: The questionnaire will also collect information on the knowledge, attitudes, and child-rearing practices of the principal caregivers.
- 3. Anthropometric data: Weights will be recorded to the nearest tenth (0.1) of a kilogram for all children under the age of six by using digital scales that are to be provided. In addition, heights will be collected for all children between the ages of two and six. The pretest will be used to determine whether it is feasible to collect the weights of the mothers of these children (if living in the households) as well.
- 4. Cognitive assessment: The firm will work with other local and international research consultants to the PCO to integrate tests of child cognitive development into the overall field data collection. In the baseline survey an internationally recognized test of cognitive development will be administered to children aged 4.0–5.99 years. This test will also be administered to the same age group in the second round of the survey, allowing a comparison of cohorts. In addition, a subset of children aged 6–7.99 years at the time of the second round will be administered this test. (Annex table 2.1 summarizes this strategy. In addition, knowledge assessments based on specific content from the program and a dynamic assessment may be developed for the second round of the survey. The inclusion of these measures will be evaluated during the course of the project. Finally, a school performance measure will be developed for assessing knowledge acquired in the first year of school and administered to a subset of older children in the resurvey. Existing tests might be adapted.
- 5. Child health: Morbidity data (including number and kind of symptoms, levels of severity, length in time), patterns of access to and utilization of health services, sanitation, and so forth.
- 6. Household economy: The best approach to collecting this information will be extensively explored in the pretest phase and assessed jointly with advisors from the PCO prior to finalizing the questionnaire. The variables may include food expenditures; agropastoral activities; consumption of home production; nonfood expenditures; housing characteristics; inventory of durable goods; employment; economic activities; income; land; crops and animals; income from project activities; household enterprises; asset ownership; credit and savings information on amount of money and goods lent and borrowed, if money and goods have been borrowed in the past 12 months; savings and net debt the day of the interview; information on loans, including the schedule, reason for borrowing, and number of loans from the same source; and location of savings, if any, including bank, housing savings bank, rural savings bank, and so forth. This information will be part of the baseline and final surveys only.

## Example 3.4b: Palm Oil Sector Report

Source: Adapted from GTZ Thailand, Sector Report Revision 30 June 2008

Goal Level Sector Indicators:

Indicator	Status Last Yr. [insert date]	Status This Yr. [insert date]	Total Change	Change Attributable To Programme
Outreach				
Additional Net Income per SME				
Additional FTE Jobs				

Cumulative Outreach and Income:

Intervention	Outreach in [insert year]	Additional Net Income per SME per year	Total additional net income generated in [insert year]	Cumulative outreach since [insert start date]	Cumulative additional net income since [insert start date]
Intervention 1					
Intervention 2					
Etc.					
Total*					

\* Total adjusted for overlap among interventions

# Example 3.5a: Example of Method for Collecting Data on Sources and Ranking of Household Income

*Source;* Jenefer Sebstad and Don Snodgrass. 2004. *Assessing the Impact of the Kenya BDS and the Horticulture Development Center Projects in the Treefruit Subsector of Kenya: Baseline Research Design; p34* 

Economic Activity		Please indicate the order of importance of each of these activities in the household's total income during the past 12 months. -9 = Activity could not be ranked 0 = did not give any income though produced 1 = this activity gave the highest income of any activity  -1 = the household did not engage in the activity Enumerator; First place a-1 for all activities that the household did not engage in. Then determine which of the remaining activities was the most important, second etc.	Please Indicate the proportion of total household income this income source provided to the household during the last 12 months
		ORDER	
Production and sales of cereals and tubers	1		
Production and sales of vegetables	2		
Production and sales of tree fruits	3		
Production and sales of other fruits	4		
Livestock production and sales	5		
Farm Kibarua	6		
Non-farm kibarua	7		
Salaried labour	8		
Business activities	9		
Remittance	10		

## Example 3.5b: Asset Scoring Approach

*Source;*Jenefer Sebstad and Don Snodgrass. 2004. *Assessing the Impact of the Kenya BDS and the Horticulture Development Center Projects in the Treefruit Subsector of Kenya: Baseline Research Design; p36* 

"To illustrate how the asset score works, examples of questions and weights used to create the asset score in a previous study in Kenya are presented below. The factor score used here are based on a national sample survey. We will develop a set of area specific factor scores – by applying principal component analysis to responses received on assets. The resulting factor scores will serve as a basis for ranking individuals by wealth (Gwatkin, Rustein, Johnson, Pande and Wagstaff, May 2000 and Pande and Yazbeck, 2003)."

Note: the following scores are based on 1998 Demographic and Health Survey's national sample of households

Question	Score if response is "yes"	Score if response is "no"	Item score
In your dwelling, is there:	,		
Electricity	1.954	-0.276	
A radio	0.305	-0.494	
A television	1.897	-0.247	
A refrigerator	3.435	-0.117	
A bicycle	1.108	-0.036	
A motor cycle	2.703	-0.021	
A car	2.626	-0.114	
A telephone	3.688	-0.086	
A domestic worker not related to household head	2.332	-0.031	
Do members of your household work on their own or the family's agricultural land	-0.494	0.172	
What is the principle household source of drinking water?			
Piped drinking water in residence	1.184	-0.313	
Piped drinking water in public tap	0.083	-0.012	
Inside well drinking water	-0.044	0.004	
Public well	-0.379	0.056	
Rain for drinking water	0.525	-0.007	
River, canal or surface water for drinking	-0.524	0.313	
Other source of drinking water	0.135	-0.003	
What is the principle type of toilet facility used by members of your household?			
Own flush toilet	2.718	-0.165	
Shared flush toilet	1.283	-0.046	
Pit latrine	-0.205	0.046	
VIP latrine	0.575	-0.043	
Bush, field as latrine	-0.695	0.115	
Other types of latrine	-0.079	0.000	
What is the principle type of flooring in your dwelling?			
Dirt, earth	-0.539	1.000	
Wood, plank	0.362	0004	

Cemnet	0.948	-0.453
Tile flooring	3.206	-0.040
Other type of flooring	1.264	0.000
What is the principal roofing material in your house?		
Natural material roofing	-0.755	0.309
Corrugated iron	0.190	-0.390
Roofing tiles	3.168	-0.083
Other roofing	1.498	-0.010
In your dwelling, how many members are there per sleeping room (score is per member)	{(#members – 2.592	)/1.893 x -0.259
<i>Total household asset score</i> (sum of individual item scores)		

## Cut off points for Wealth Quintiles

Wealth	Assest Inde	ex Value
Quintile	Lowest	Highest
Poorest	Lowest	-0.77258
Second	-0.77258	-0.51780
Third	-0.51780	-0.22324
Forth	-0.22324	0.52588
Richest	0.52588	Highest

## Example 6.1: Total and Cumulative Programme Costs

Country:		
Project No:		
Title:		
Date:		

Budget Line			
Code Title	2006	2007	Total

#### **Project Personnel**

9.1	Project Staff		
12.4	Travel Costs		
15.6	External Consultants		

545 104
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#### Support Costs

27	In-country overheads		
94	Direct costs		

Sub total		
Authorized by:	Prepared by:	
Resp. Officer	Checked by:	

## Example 8.1a: Getting Ready - Planning Your Research Team

Source: <u>Alexandra Miehlbradt and Linda Jones</u>. <u>December 2007</u>. <u>Market Research For Value Chain Initiatives -</u> Information to Action: A Toolkit Series for Market Development Practitioners</u>. <u>MEDA</u>; p27

Name (or organization if outsourcing)	Key Skills	Roles in Market Research
Fernando Olivera, MEDA	Solid understanding of sub sectors and how they function in the Peruvian context Knowledge of coffee sub sector Strong research design skills Extensive experience conducting and leading market research teams	Lead Researcher Lead Market Research Team Define research questions Conduct Interviews and Focus Group Discussions Review all information collected
Carlos Tejada, MEDA	Extensive experience formulating interview questions, and conducting interviews Strong organizational skills Excellent communication skills Good understanding of local cultures	Assistant Moderator Introduce project to respondents Coordinate some of the logistic Assist during interviews to ensure sessions are kept on track Add questions when needed Operate recording device and take notes
Carmen Valdez, MEDA	Excellent organizational skills Logistical specialist	Organizational Assistant Contact and Schedule respondents Prepare materials for market research All logistical components
Jenniffer McGregor, MEDA	Good understanding of sub sectors and the Peruvian context Extensive experience conducting market research especially with small scale producers Entrepreneurial insight	Researcher Lead Market Observation component Assist in determining entrepreneurial opportunities

## Example 8.1b: Overview of Staff Roles and Responsibilities

Source: Katalyst Bangladesh. May 2008. Impact Management System Manual; p153-155

#### Note: This table summarizes staff roles and responsibilities. Detailed TORs for each type of staff are included on the following pages.

Task/Activity	Responsible	Involved/Reviews	Approved by
Planning			
Market Plans: strategies and market logics	Market teams	M&IA team if required	Division Manager
	Deputy / Coordinators		M&IA Manager
	Division Manager		
Market M&IA Plan	M&IA team	Market teams	M&IA Manager
Intervention Plan: designs and logics	Market teams	M&IA team if required	Division Manager
	Deputies / Coordinators		M&IA Manager
Intervention M&IA Plan	M&IA team	Market teams	M&IA Manager
Data Collection			
Baseline data (if not in Inception Report)	Market team	Market teams	M&IA Manager
	M&IA team		
Intervention level data	M&IA team leads the design and work with market teams on data collection; larger activities may be contracted out and supervised by the M&IA team	Market teams comment on design and help with data collection	M&IA Manager
Market level data including GMS	M&IA team leads the design, contract out and supervise contractors	Market teams comment on design and help supervise contractors in the field	M&IA Manager
Special Studies and Cases	M&IA manager leads, contracts out and	Market teams and M&IA team as	General Manager
	supervises contractors	appropriate	M&IA Manager or
			C&C Manager
Mini-Cases	Market teams	with assistance of M&IA units	Divison Manager
Data Processing and Preliminary Analys	is		<u> </u>
Baseline Data	M&IA team	Market teams as required	M&IA Manager
Intervention Level Data	M&IA team	Market teams actively assist	M&IA Manager
Market Level Data	Contractors and M&IA team	Market teams	M&IA Manager

Task/Activity	Responsible	Involved/Reviews	Approved by
Reporting			
Market Progress Report	Market teams	M&IA team	Division Manager
	Deputies / Coordinators		M&IA Manager
Intervention Report	Market teams	M&IA team	Division Manager
			M&IA Manager
Mini-Cases	Market teams	M&IA team	Division Manager
			M&IA Manager
Annual Report	Managers / Deputies	Coordinators	M&IA Manager
Cases	Contractor	M&IA Manager	C&C Manager
Special Studies	Contractor	M&IA Manager	General Manager
			M&IA manager
			C&C Manager
Analysis and Decision Making	1		
Market Level	Market teams	M&IA team if required	Division Manager
	Deputies / Coordinators		
Intervention Level	Market teams	M&IA team if required	Division Manager
Portfolio and Strategic Direction	Managers / Deputies	M&IA team if required	General Manager
Impact Management System Manageme	nt		
Direct Katalyst Impact Management System	M&IA Manager	M&IA team	General Manager
Coordinate M&IA Activities at the Division level	M&IA team / Market teams	Deputies / Coordinators	Division Manager
Coordinate Annual Aggregation	M&IA Manager	M&IA team	General Manager
		Market teams	

### Example 8.1c: Roles and Responsibilities for the Katalyst Impact Management System: ToRs

Source: Katalyst Bangladesh. May 2008. Impact Management System Manual; Annex D

#### **MARKET TEAMS**

#### Scope

Market teams play a key role in operationalizing Katalyst's Impact Management System. The Market teams work in collaboration with upper management to identify markets, assess market constraints and opportunities, and develop market strategies. They plan, design and implement interventions. They work closely with the M&IA Unit to develop M&IA plans and to track their progress towards the achievement of desired outcomes and impacts on ongoing basis. They analyze use information from the Impact Management System to adjust interventions and market strategies and to apply lessons learned to new interventions. Active and frequent collaboration between the Market teams and the M&IA Unit is essential to maximizing the effectiveness and efficiency of the Impact Management System. The Impact Management System is integral to Katalyst's core activities – in foundation markets, value chains and governance initiatives – which aim to promote private sector growth and poverty reduction in Bangladesh.

#### Tasks and responsibilities

#### **Identify markets**

- Assist Division Manager and Deputies to select markets in which to intervene
- Conduct sub-sector/market analysis
- Draft inception report (research findings and initial market strategy)

#### **Design Interventions**

- Intervention plans
- Intervention logics and predictions
- Review M&IA plan (developed by M&IA Unit)

#### **Design Market Plans**

- Market strategies
- Market logics and predictions
- Review market M&IA plan (developed by M&IA Unit)

#### Collect M&IA data as per the M&IA plans

- Carry out in-house data collection on service market and enterprise level changes
- Assist M&IA unit to plan and supervise outsourced data collection for interventions (as appropriate) and markets

- Keep field diaries noting changes and impact observed
- Identify and gather information for mini case studies
- Give M&IA data to M&IA Unit

#### Analyze and use M&IA findings

- Review M&IA monitoring reports
- Document use of information for decision-making
- Meet with division manager or deputy and M&IA staff to analyze progress and findings on interventions and markets and plan for next six months
- Document key decisions from six monthly review

#### Collaborate with the M&IA Unit

- To plan M&IA activities
- To report on M&IA activities
- To provide feedback on M&IA manual and system

#### **Oversee partner M&IA activities**

- Review M&IA capacity of partners
- Recommend to Division C areas for needed capacity building in M&IA for partners
- Oversee M&IA activities of partners

#### **Reporting responsibilities**

- Six monthly review and update of market strategies and logics
- Six monthly review and update of intervention plans and logics
- Six monthly review and update of impact predictions
- Write market progress report every six months
- Write closure report upon completion of interventions and markets

#### M&IA UNIT

#### Scope

Katalyst M&IA Unit members are responsible for integrating M&IA activities into Katalyst's project cycle. They are responsible for designing M&IA plans for each intervention and market strategy, and working with the Market teams to implement the plans. They are responsible for overseeing the General Market Survey, collecting market and intervention level data at several points in time, and designing and conducting special studies, case studies, and mini-cases. The M&E Unit also ensures effective management of the M&E data by processing it and making is accessible for use. They play a

key role in working with Market teams and deputy managers in analyzing the M&IA data and reporting on the outcomes and predicted impacts of Katalyst activities.

#### Tasks and responsibilities

#### Planning

- Support the development of intervention and market plans
- Work with Market teams to develop the market logics and intervention logics
- Take the lead in developing M&IA plans for each intervention and market
- Work with Market teams to review and revise the market logics, intervention logics and intervention plans every six months
- Develop and monitor M&IA calendars at the division level for all markets and interventions
- Maintain a pool of consultants and research firms to carry out M&IA work

#### Data collection

- Design and conduct baseline studies (with Market teams or research firms)
- Design intervention and market level data collection in consultation with the Market teams
- Support Market teams in collecting data for interventions and markets
- Design, contract out, and supervise the General Market Surveys and other outsourced studies
- Support consultants in conducting special studies and case studies
- Gather information for mini cases

#### Data management

- Manage baseline and follow up data
- Process quantitative data to be accessible to Market teams
- Compile qualitative research results
- Keep an accessible set of monitoring data and research results (quantitative and qualitative) on each intervention and market

#### Analysis and use of M&IA findings

- Summarize M&IA findings for each market every 6 months in preparation for the six monthly review
- Support Market teams to analyze data gathered

#### Reporting

- Review and compile information on interventions and markets from Market teams for external reports
- Write mini cases

- Support Market teams in preparing intervention reports and market progress reports
- Review and verify findings from the Impact Management System in reports
- Ensure that findings generated by the M&IA system are incorporated into reports for management and donors
- Respond to other M&IA data needs of Katalyst

#### System management

- Coordinate all M&IA work with the divisions
- Tracks all M&IA plans and reports approved and those pending per market
- Prepare a periodic summary of the status of all M&IA activities for the senior management team. The summary notes which markets are completely up to date with their M&IA activities and which are behind on their M&IA activities, and what they need to do to catch up.
- Liaise with partners regarding M&IA work
- Assist with annual project-wide aggregation of impact predictions and estimates
- Update Impact Management System manual
- Meet regularly with divisions to discuss, provide feedback, and solve common M&IA problems

#### **DEPUTY MANAGERS AND COORDINATORS**

#### Scope

The Deputy Managers and Coordinators play a key role in the Impact Management System by supporting, reviewing, and supervising the M&IA activities within their divisions. They are the main channel of communication between the Market teams and the M&E Unit. They are responsible for ensuring that the M&IA activities are well planned and implemented, that Market teams carry out their roles effectively, and that the M&IA findings are used to improve impacts at the market and intervention levels.

#### Tasks and responsibilities

#### Planning

- Guide Market teams in designing the market strategies and market logics
- Guide Market teams in designing the intervention plans and intervention logics
- Review M&IA plans and provide feedback to the M&IA Unit
- Monitor and guide M&IA activities within their divisions
- Regularly update M&IA Unit on the status of interventions within their divisions (start and end dates of all interventions)

#### Data management

• Ensure Market teams keep their M&IA documents organized, up to date, and in usable form

#### Analysis and use of M&IA findings

- Review M&IA monitoring reports
- Analyze the market level M&IA findings and use them to make decisions and adjust market strategies as needed to improve impact
- Guide Market teams in using the M&E system to improve impact
- Meet with division manager, each Market Unit and M&IA staff to analyze progress and findings on interventions and markets and plan for next six months
- Guide Market teams to review and revise the market logics, intervention logics and intervention plans
- Ensure projected impact figures are updated every six months by the Market teams with support from the M&IA Unit

#### Reporting

- Work with Market teams to write market progress reports
- Guide Market teams in writing intervention reports
- Contribute to the Annual Report, and Semester Reports
- Review and provide feedback on mini cases

#### System Management:

- Build capacity of Market teams to carry out M&IA activities
- Work with other divisions and managers to ensure good communication and sharing around M&IA
- Work with the M&IA Unit to coordinate M&IA activities at the division level

#### **DIVISION MANAGERS**

#### Scope

Division Managers have responsibility for coordinating all M&IA activities within their divisions and ensuring they support Katalyst's overall mission and aims. They are responsible for adapting elements of the system, as required, to meet the needs of their divisions.

Within Katalyst, Division Managers are responsible for working together to develop the overall portfolio of activities and define the strategic direction of the project. Within M&IA, they provide feedback and suggestions to the M&IA Manager on how to improve the Impact Management System. They lead and encourage sharing among divisions on M&IA work and findings.

Within each Division, Managers are responsible for selecting markets and guiding deputies and market teams in market studies and development of market strategies. They take an active role in preparing market plans. Division managers are responsible for reviewing and approving all intervention plans, market progress reports, intervention reports, and mini cases. They review and

make decisions about whether to approve changes in market strategies or interventions recommended by their Deputies and Market teams based on information generated on outcomes and projected impacts by the M&IA system.

They communicate regularly with Deputy Managers on the status of M&IA activities and with other division managers and the general manager on the overall outcomes and impacts of Katalyst activities. They are tasked with analyzing the information generated by the M&IA system to develop strategies for improving impacts. They are responsible for reporting to the General Manager and to donors on the outcomes, projected impacts, and lessons of Katalyst's overall portfolio of work in markets.

In addition, they carry out the following M&IA related tasks and responsibilities:

- Approves market plans
- Technical support on M&IA with their divisions
- Lead and guide six monthly review on each market
- Put M&IA on agenda of division meetings
- Update predicted impact figures annually
- Provide overall direction and inspiration for M&IA activities within their divisions

#### M&IA MANAGER

#### Scope

The M&IA manager is responsible for directing the Katalyst Impact Management System. He/she ensures that activities are well designed, the system generates high quality data, analysis, and reports, and the information is useful for improving Katalyst's performance and impacts, reporting to donors, and meeting Katalyst's internal and external information needs.

He/she directs the activities of the M&IA unit, manages unit staff involved in planning, designing, and implementing M+IA activities, and ensures that the unit operates at a high standard of performance. He/she ensures quality and timeliness of data generated by the system.

He/she facilitates good communication and coordination with the divisions and other units. He/she provides guidance on technical and methodological issues in implementing the Impact Management System. He/she ensures that staff have the knowledge and skills, and tools and resources to implement the system effectively and efficiently. He/she ensures that the data, information, and research findings generated by the M&E system are useful (and used) internally for management purposes, and externally for reporting results to donors and disseminating lessons to the wider development community. The M&IA manager works with the General Manager to ensure that Katalyst meets the information needs of key stakeholders.

#### Tasks and responsibilities

#### Planning

- Approves the market strategies and intervention plans
- Approves the market logics and intervention logics
- Approves the market and intervention level M&IA plans
- Harmonizes M&IA planning across Katalyst

#### **Data gathering**

- Approves all baseline data collection activities
- Approves all intervention level data collection activities
- Approves all market level data collection activities
- Takes the lead in designing and implementing special studies and case studies
- Approves all mini-cases

#### Data processing and analysis

• Manages and reviews the processing and analysis of the baseline data, intervention level data and market level data

#### Reporting

- Leads preparation of the annual report and semester reports
- Leads preparation of reports and inputs for the mid-term review
- Reviews and approves market progress reports
- Reviews and approves intervention reports
- Reviews and approves mini-cases
- Reviews and provides feedback on case studies
- Reviews and provides feedback on special studies
- Ensures easy access to M&IA reports and data

#### Analysis and decision making

- Ensures that the M&IA findings are shared and acted upon
- Supports management, as necessary, in using M&IA data for decision-making related to specific interventions, markets strategies, and the direction of the overall the portfolio
- Participates in six monthly reviews of each market

#### Management

- Works with staff to resolve M&IA issues of concern as they emerge
- Updates impact figures for the overall project on an annual basis
- Coordinates M&IA activities across divisions
- Coordinates M&IA Unit's work with the divisions

- Provides technical support to M&IA unit and divisions
- Leads M&IA retreats
- Keeps the Impact Management System manual up to date
- Manages the M&IA internal reporting process within Katalyst
- Ensures M&IA responsibilities of partners are spelled out
- Reviews staff performance and provides feedback and support to enable them to improve their M&IA work

#### **GENERAL MANAGER**

#### Scope

The General Manager (GM) has ultimate responsibility for the Katalyst Impact Management System. The GM ensures that the system is implemented in a timely manner, generates information that is useful for improving impacts, and meets the information needs of key stakeholders (donors and government). The GM ensures that sufficient and appropriate human and financial resources are available for M&IA. He/she is responsible for ensuring the findings are generated, shared, and used at appropriate points in the Katalyst project cycle. The GM approves decisions relevant to the overall direction of the Impact Management System. He/she is responsible for reporting to donors and disseminating lessons learned to the wider development community.

#### Tasks and responsibilities:

#### System Design

- Ensures the design of the Impact Management System incorporates up-to-date thinking on M&IA for private sector development projects
- Ensures that the Impact Management System responds to the reporting needs of donors
- Ensures that the system generates information that is reliable, useful, and practical to collect
- As Katalyst's strategies change, updates the system to meet any new information needs and ensures that this information is shared

#### **System Implementation**

• Approves implementation of special studies and case studies

#### Reporting

- Approves annual report and semester reports
- Approves case study reports
- Approves special study reports
- Approves the annual aggregation of impact predictions and estimates

#### Analysis and decision-making

• Oversees the overall composition and strategic direction of the Katalyst portfolio

#### Management

• Allocates sufficient and appropriate human resources, financial resources and management support to implement the Impact Management System effectively and efficiently

#### Communication

- Reviews and approves reports to donors
- Communicates regularly with staff on lessons learned from the field
- Communicate regularly with donors on M&IA issues
- Leads dissemination of the results and lessons of Katalyst interventions and strategies to the broader development community

## Annex B.

## Official List of MDG Indicators

#### All indicators should be disaggregated by sex and urban/rural as far as possible.

http://unstats.un.org/unsd/mdg/Host.aspx?Content=Indicators/OfficialList.htm

Effective 15 January 2008

Millennium Development Goals (MDGs)			
Goals and Targets (from the Millennium Declaration)	Indicators for monitoring progress		
Goal 1: Eradicate extreme poverty and hunger			
Target 1.A: Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day	<ul> <li>1.1 Proportion of population below \$1 (PPP) per day<sup>38</sup></li> <li>1.2 Poverty gap ratio</li> <li>1.3 Share of poorest quintile in national consumption</li> </ul>		
Target 1.B: Achieve full and productive employment and decent work for all, including women and young people	<ol> <li>Growth rate of GDP per person employed</li> <li>Employment-to-population ratio</li> <li>Proportion of employed people living below \$1 (PPP) per day</li> <li>Proportion of own-account and contributing family workers in total employment</li> </ol>		
Target 1.C: Halve, between 1990 and 2015, the proportion of people who suffer from hunger	<ul><li>1.8 Prevalence of underweight children under-five years of age</li><li>1.9 Proportion of population below minimum level of dietary energy consumption</li></ul>		
Goal 2: Achieve universal primary education			
Target 2.A: Ensure that, by 2015, children everywhere, boys and girls alike, will be able to complete a full course of primary schooling	<ul> <li>2.1 Net enrolment ratio in primary education</li> <li>f 2.2 Proportion of pupils starting grade 1 who reach last grade of primary</li> <li>2.3 Literacy rate of 15-24 year-olds, women and men</li> </ul>		
Goal 3: Promote gender equality and empower women			
Target 3.A: Eliminate gender disparity in primary and secondary education, preferably by 2005, and in all levels of education no later than 2015	<ul> <li>3.1 Ratios of girls to boys in primary, secondary and tertiary education</li> <li>of 3.2 Share of women in wage employment in the non-agricultural sector</li> <li>3.3 Proportion of seats held by women in national parliament</li> </ul>		
Goal 4: Reduce child mortality			
Target 4.A: Reduce by two-thirds, between 1990 and 2015, the under-five mortality rate	<ul> <li>, 4.1 Under-five mortality rate</li> <li>4.2 Infant mortality rate</li> <li>4.3 Proportion of 1 year-old children immunised against measles</li> </ul>		
Goal 5: Improve maternal health			
Target 5.A: Reduce by three quarters, between 1990 and 2015, the maternal mortality ratio	<ul><li>5.1 Maternal mortality ratio</li><li>5.2 Proportion of births attended by skilled health personnel</li></ul>		
Target 5.B: Achieve, by 2015, universal access to reproductive health	<ul> <li>5.3 Contraceptive prevalence rate</li> <li>5.4 Adolescent birth rate</li> <li>5.5 Antenatal care coverage (at least one visit and at least four visits)</li> <li>5.6 Unmet need for family planning</li> </ul>		

<sup>&</sup>lt;sup>38</sup> For monitoring country poverty trends, indicators based on national poverty lines should be used, where available.

Goal 6: Combat HIV/AIDS, malaria and other diseases	
	6.1 HIV prevalence among population aged 15-24 years
	6.2 Condom use at last high-risk sex
	6.3 Proportion of population aged 15-24 years with comprehensive correct
	knowledge of HIV/AIDS
	6.4 Ratio of school attendance of orphans to school attendance of non-
	orphans aged 10-14 years
Target 6.B: Achieve, by 2010, universal access to treatment	6.5 Proportion of population with advanced HIV infection with access to
for HIV/AIDS for all those who need it	antiretroviral drugs
Target 6.C: Have halted by 2015 and begun to reverse the	
,	<ul><li>6.7 Proportion of children under 5 sleeping under insecticide-treated bed-nets</li><li>6.8 Proportion of children under 5 with fever who are treated with appropriate</li></ul>
	anti-malarial drugs
	<ul><li>6.9 Incidence, prevalence and death rates associated with tuberculosis</li><li>6.10 Proportion of tuberculosis cases detected and cured under directly</li></ul>
	observed treatment short course
Goal 7: Ensure environmental sustainability	
Target 7.A: Integrate the principles of sustainable	7.1 Proportion of land area covered by forest
development into country policies and programmes and	
reverse the loss of environmental resources	7.3 Consumption of ozone-depleting substances
	7.4 Proportion of fish stocks within safe biological limits
Target 7.B: Reduce biodiversity loss, achieving, by 2010, a	1
significant reduction in the rate of loss	7.6 Proportion of terrestrial and marine areas protected
	7.7 Proportion of species threatened with extinction
	<ul><li>7.8 Proportion of population using an improved drinking water source</li><li>7.9 Proportion of population using an improved sanitation facility</li></ul>
	7 10 Properties of urban population living in clume <sup>39</sup>
improvement in the lives of at least 100 million slum dwellers	
Goal 8: Develop a global partnership for development	
	Some of the indicators listed below are monitored separately for the least
predictable, non-discriminatory trading and financial system	developed countries (LDCs), Africa, landlocked developing countries and small island developing States.
Includes a commitment to good governance, development	Official development assistance (ODA)
Includes a commitment to good governance, development and poverty reduction – both nationally and internationally	8.1 Net ODA, total and to the least developed countries, as percentage of
	OECD/DAC donors' gross national income
	8.2 Proportion of total bilateral, sector-allocable ODA of OECD/DAC donors to
	basic social services (basic education, primary health care, nutrition, safe
Target 8.B: Address the special needs of the least	water and sanitation)
developed countries	8.3 Proportion of bilateral official development assistance of OECD/DAC donors that is untied
	8.4 ODA received in landlocked developing countries as a proportion of their
Includes: tariff and quota free access for the least	gross national incomes
developed countries' exports; enhanced programme of debt	
relief for heavily indebted poor countries (HIPC) and cancellation of official bilateral debt; and more generous	gross national incomes
cancendion of emolal bildioral debi, and more generous	

<sup>39</sup> The actual proportion of people living in slums is measured by a proxy, represented by the urban population living in households with at least one of the four characteristics: (a) lack of access to improved water supply; (b) lack of access to improved sanitation; (c) overcrowding (3 or more persons per room); and (d) dwellings made of non-durable material.

ODA for countries committed to poverty reduction	Market access
Target 8.C: Address the special needs of landlocked developing countries and small island developing States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twenty-second special session of the General Assembly)	<ul> <li>8.8 Agricultural support estimate for OECD countries as a percentage of their gross domestic product</li> <li>8.9 Proportion of ODA provided to help build trade capacity <u>Debt sustainability</u> 8.10 Total number of countries that have reached their HIPC decision points and number that have reached their HIPC completion points (cumulative) 8.11 Debt relief committed under HIPC and MDRI Initiatives 8.12 Debt service as a percentage of exports of goods and services</li></ul>
Target 8.E: In cooperation with pharmaceutical companies, provide access to affordable essential drugs in developing countries	8.13 Proportion of population with access to affordable essential drugs on a sustainable basis
Target 8.F: In cooperation with the private sector, make available the benefits of new technologies, especially information and communications	

The Millennium Development Goals and targets come from the Millennium Declaration, signed by 189 countries, including 147 heads of State and Government, in September 2000 (<u>http://www.un.org/millennium/declaration/ares552e.htm</u>) and from further agreement by member states at the 2005 World Summit (Resolution adopted by the General Assembly - A/RES/60/1, <u>http://www.un.org/Docs/journal/asp/ws.asp?m=A/RES/60/1</u>). The goals and targets are interrelated and should be seen as a whole. They represent a partnership between the developed countries and the developing countries "to create an environment – at the national and global levels alike – which is conducive to development and the elimination of poverty".