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24614 MONITORING EVALUATION:

Some Tools, Methods & Approaches



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MONITORING EVALUATION: Some Tools, Methods & Approaches



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M&E OVERVIEW:

SOME TOOLS, METHODS AND APPROACHES FOR MONITORING AND EVALUATION

PURPOSE Monitoring and evaluation (M&E) of development activities provides government officials, development managers, and civil society with better means for learning from past experience, improving service delivery, planning and allocating resources, and demonstrating results as part of accountability to key stakeholders.

Within the development community there is a strong focus on *results* this helps explain the growing interest in M&E. Yet there is often confusion about what M&E entails. The purpose of this M & C Overview is to strengthen awareness and interest in M&E, and to clarify what it entails.

You will find an overview of a sample of M&E tools, methods, and approaches outlined here, including their purpose and use; advantages and disadvantages; costs, skills, and time required; and key references. Those illustrated here include several data collection methods, analytical frameworks, and types of evaluation and review. The *M&E Overview* discusses:

- Performance indicators
- The logical framework approach
- Theory-based evaluation
- Formal surveys
- Rapid appraisal methods
- Participatory methods
- Public expenditure tracking surveys
- Cost-benefit and cost-effectiveness analysis
- Impact evaluation

This list is not comprehensive, nor is it intended to be. Some of these tools and approaches are complementary; some are substitutes. Some have broad applicability, while others are quite narrow in their uses. The choice of which is appropriate for any given context will depend on a range of considerations. These include the uses for which M&E is intended, the main stakeholders who have an interest in the M&E findings, the speed with which the information is needed, and the cost.

Performance Indicators

What are they?

Performance indicators are measures of inputs, processes, outputs, outcomes, and impacts for development projects, programs, or strategies. When supported with sound data collection—perhaps involving formal surveys—analysis and reporting, indicators enable managers to track progress, demonstrate results, and take corrective action to improve service delivery. Participation of key stakeholders in defining indicators is important because they are then more likely to understand and use indicators for management decision-making.

What can we use them for?

- Setting performance targets and assessing progress toward achieving them.
- Identifying problems via an early warning system to allow corrective action to be taken.
- Indicating whether an in-depth evaluation or review is needed.

ADVANTAGES:

- Effective means to measure progress toward objectives.
- Facilitates benchmarking comparisons between different organizational units, districts, and over time.

DISADVANTAGES:

- Poorly defined indicators are not good measures of success.
- Tendency to define too many indicators, or those without accessible data sources, making system costly, impractical, and likely to be underutilized.
- Often a trade-off between picking the optimal or desired indicators and having to accept the indicators which can be measured using existing data.

COST:

Can range from low to high, depending on number of indicators collected, the frequency and quality of information sought, and the comprehensiveness of the system.

SKILLS REQUIRED:

Several days of training are recommended to develop skills for defining practical indicators. Data collection, analysis and reporting skills, and management information system (MIS) skills are required to implement performance monitoring systems.

TIME REQUIRED:

Several days to several months, depending on extent of participatory process used to define indicators and program complexity. Implementing performance monitoring systems may take 6–12 months.

FOR MORE INFORMATION:

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• World Bank (2000). Key Performance Indicator Handbook. Washington, D.C.
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 Hatry, H. (1999). Performance Measurement: Getting Results. The Urban Institute, Washington, D.C.

The Logical Framework Approach

What is it?

The logical framework (LogFrame) helps to clarify objectives of any project, program, or policy. It aids in the identification of the expected causal links—the "program logic"—in the following results chain: inputs, processes, outputs (including coverage or "reach" across beneficiary groups), outcomes, and impact. It leads to the identification of performance indicators at each stage in this chain, as well as risks which might impede the attainment of the objectives. The LogFrame is also a vehicle for engaging partners in clarifying objectives and designing activities. During implementation the LogFrame serves as a useful tool to review progress and take corrective action.

What can we use it for?

- Improving quality of project and program designs—by requiring the specification of clear objectives, the use of performance indicators, and assessment of risks.
- Summarizing design of complex activities.
- Assisting the preparation of detailed operational plans.
- Providing objective basis for activity review, monitoring, and evaluation.

ADVANTAGES:

- Ensures that decision-makers ask fundamental questions and analyze assumptions and risks.
- Engages stakeholders in the planning and monitoring process.
- When used dynamically, it is an effective management tool to guide implementation, monitoring and evaluation.

DISADVANTAGES:

- If managed rigidly, stifles creativity and innovation.
- If not updated during implementation, it can be a static tool that does not reflect changing conditions.
- Training and follow-up are often required.

COST:

Low to medium, depending on extent and depth of participatory process used to support the approach.

SKILLS REQUIRED:

Minimum 3–5 days training for facilitators; additional facilitation skills required for use in participatory planning and management.

TIME REQUIRED: Several days to several months, depending on scope and depth of participatory process.

FOR MORE INFORMATION

- World Bank (2000). The Logframe Handbook, World Bank: http://wbln1023/OCS/Quality.nsf/Main/MELFHandBook/\$File/LFhandbook.pdf
- GTZ (1997). ZOPP: Objectives-Oriented Project Planning: http://www.unhabitat.org/cdrom/governance/html/books/zopp_e.pdf

Theory-Based Evaluation

What is it?

Theory-based evaluation has similarities to the LogFrame approach but allows a much more in-depth understanding of the workings of a program or activity—the "program theory" or "program logic." In particular, it need not assume simple linear cause-andeffect relationships. For example, the success of a government program to improve literacy levels by increasing the number of teachers might depend on a large number of factors. These include, among others, availability of classrooms and textbooks, the likely reactions of parents, school principals and schoolchildren, the skills and morale of teachers, the districts in which the extra teachers are to be located, the reliability of government funding, and so on. By mapping out the determining or causal factors judged important for success, and how they might interact, it can then be decided which steps should be monitored as the program develops, to see how well they are in fact borne out. This allows the critical success factors to be identified. And where the data show these factors have not been achieved, a reasonable conclusion is that the program is less likely to be successful in achieving its objectives.

What can we use it for?

- Mapping design of complex activities.
- Improving planning and management.

ADVANTAGES:

- Provides early feedback about what is or is not working, and why.
- Allows early correction of problems as soon as they emerge.
- Assists identification of unintended side-effects of the program.
- Helps in prioritizing which issues to investigate in greater depth, perhaps using more focused data collection or more sophisticated M&E techniques.
- Provides basis to assess the likely impacts of programs.

DISADVANTAGES:

- Can easily become overly complex if the scale of activities is large or if an exhaustive list of factors and assumptions is assembled.
- Stakeholders might disagree about which determining factors they judge important, which can be time-consuming to address.

COST:

Medium—depends on the depth of analysis and especially the depth of data collection undertaken to investigate the workings of the program.

SKILLS REQUIRED:

Minimum 3-5 days training for facilitators.

TIME REQUIRED:

Can vary greatly, depending on the depth of the analysis, the duration of the program or activity, and the depth of the M&E work undertaken.

FOR MORE INFORMATION:

- Weiss, Carol H. (1998). *Evaluation*. Prentice Hall, New Jersey, Second Edition.
- Weiss, Carol H. (2000). "Theory-based evaluation: theories of change for poverty reduction programs." In O. Feinstein and R. Picciotto (eds.), *Evaluation and Poverty Reduction*. Operations Evaluation Department, The World Bank, Washington, D.C.
- Mayne, John (1999). Addressing Attribution Through Contribution Analysis: Using Performance Measures Sensibly. Office of the Auditor General of Canada working paper, Ottawa: http://www.oag-bvg.gc.ca/domino/other.nsf/html/99dp1_e.html

Formal Surveys

What are they?

Formal surveys can be used to collect standardized information from a carefully selected sample of people or households. Surveys often collect comparable information for a relatively large number of people in particular target groups.

What can we use them for?

- Providing baseline data against which the performance of the strategy, program, or project can be compared.
- Comparing different groups at a given point in time.
- Comparing changes over time in the same group.
- Comparing actual conditions with the targets established in a program or project design.
- Describing conditions in a particular community or group.
- Providing a key input to a formal evaluation of the impact of a program or project.
- Assessing levels of poverty as basis for preparation of *poverty reduction strategies*.

ADVANTAGES:

- Findings from the sample of people interviewed can be applied to the wider target group or the population as a whole.
- Quantitative estimates can be made for the size and distribution of impacts.

DISADVANTAGES:

- With the exception of CWIQ, results are often not available for a long period of time.
- The processing and analysis of data can be a major bottleneck for the larger surveys even where computers are available.
- LSMS and household surveys are expensive and time-consuming.
- Many kinds of information are difficult to obtain through formal interviews.

COST:

Ranges from roughly \$30–60 per household for the CWIQ to \$170 per household for the LSMS. Costs will be significantly higher if there is no master sampling frame for the country.

SKILLS REQUIRED:

Sound technical and analytical skills for sample and questionnaire design, data analysis, and processing.

TIME REQUIRED:

Depends on sample size. The CWIQ can be completed in 2 months. The LSMS generally requires 18 months to 2 years.

Some Types of Survey

Multi-Topic Household Survey (also known as Living Standards Measurement Survey—LSMS) is a multi-

subject integrated survey that provides a means to gather data on a number of aspects of living standards to inform policy. These surveys cover: spending, household composition, education, health, employment, fertility, nutrition, savings, agricultural activities, other sources of income. *Single-topic household surveys* cover a narrower range of issues in more depth.

Core Welfare Indicators Questionnaire (CWIQ) is a household survey that measures changes in social indicators for different population groups specifically indicators of access, utilization, and satisfaction with social and economic services. It is a quick and effective tool for improving activity design, targeting services to the poor

and, when repeated annually, for monitoring activity performance. Preliminary results can be obtained within 30 days of the CWIQ survey.

Client Satisfaction (or *Service Delivery*) *Survey* is used to assess the performance of government services based on client experience. The surveys shed light on the constraints clients face in accessing public services, their views about the quality and adequacy of services, and the responsiveness of government officials. These surveys are usually conducted by a government ministry or agency.

Citizen Report Cards have been conducted by NGOs and think-tanks in several countries. Similar to service delivery surveys, they have also investigated the extent of corruption encountered by ordinary citizens. A notable feature has been the widespread publication of the findings.

FOR MORE INFORMATION:

- Sapsford, R. (1999). *Survey Research*. Sage, Newbury Park, CA.
- Core Welfare Indicators Questionnaire: http://www4.worldbank.org/afr/stats/cwiq.cfm
- LSMS: http://www.worldbank.org/lsms/
- Client Satisfaction Surveys: http://www4.worldbank.org/afr/stats/wbi.cfm#sds
- Citizen Report Cards: http://lnweb18.worldbank.org/ESSD/sdvext.nsf/60ByDocName/ CitizenReportCardSurveysANoteontheConceptandMethodology/\$FILE/CRC+SD+note.pdf

Rapid Appraisal Methods

What are they?

Rapid appraisal methods are quick, low-cost ways to gather the views and feedback of beneficiaries and other stakeholders, in order to respond to decision-makers' needs for information.

What can we use them for?

- Providing rapid information for management decision-making, especially at the project or program level.
- Providing qualitative understanding of complex socioeconomic changes, highly interactive social situations, or people's values, motivations, and reactions.
- Providing context and interpretation for quantitative data collected by more formal methods.

ADVANTAGES:

- Low cost.
- Can be conducted quickly.
- Provides flexibility to explore new ideas.

DISADVANTAGES:

- Findings usually relate to specific communities or localities—thus difficult to generalize from findings.
- Less valid, reliable, and credible than formal surveys.

COST:

Low to medium, depending on the scale of methods adopted.

SKILLS REQUIRED:

Non-directive interviewing, group facilitation, field observation, note-taking, and basic statistical skills.

TIME REQUIRED:

Four to six weeks, depending on the size and location of the population interviewed and the number of sites observed.

Rapid Appraisal Methods

Key informant interview—a series of open-ended questions posed to individuals selected for their knowledge and experience in a topic of interest. Interviews are qualitative, in-depth, and semi-structured. They rely on interview guides that list topics or questions.

Focus group discussion—a facilitated discussion among 8–12 carefully selected participants with similar backgrounds. Participants might be beneficiaries or program staff, for example. The facilitator uses a discussion guide. Note-takers record comments and observations.

Community group interview—a series of questions and facilitated discussion in a meeting open to all community members. The interviewer follows a carefully prepared questionnaire.

Direct observation—use of a detailed observation form to record what is seen and heard at a program site. The information may be about ongoing activities, processes, discussions, social interactions, and observable results.

Mini-survey—a structured questionnaire with a limited number of closeended questions that is administered to 50–75 people. Selection of respondents may be random or 'purposive' (interviewing stakeholders at locations such as a clinic for a health care survey).

FOR MORE INFORMATION

 USAID. Performance Monitoring and Evaluation Tips, #s 2, 4, 5, 10: http://www.usaid.gov/pubs/usaid_eval/#02

K. Kumar (1993). Rapid Appraisal Methods. The World Bank, Washington, D.C.

Participatory Methods

What are they?

Participatory methods provide active involvement in decision-making for those with a stake in a project, program, or strategy and generate a sense of ownership in the M&E results and recommendations.

What can we use them for?

- Learning about local conditions and local people's perspectives and priorities to design more responsive and sustainable interventions.
- Identifying problems and trouble-shooting problems during implementation.
- Evaluating a project, program, or policy.
- Providing knowledge and skills to empower poor people.

ADVANTAGES:

- Examines relevant issues by involving key players in the design process.
- Establishes partnerships and local ownership of projects.
- Enhances local learning, management capacity, and skills.
- Provides timely, reliable information for management decision-making.

DISADVANTAGES:

- Sometimes regarded as less objective.
- Time-consuming if key stakeholders are involved in a meaningful way.
- Potential for domination and misuse by some stakeholders to further their own interests.

COST:

Low to medium. Costs vary greatly, depending on scope and depth of application and on how local resource contributions are valued.

SKILLS REQUIRED:

Minimum several days' training for facilitators.

TIME REQUIRED:

Varies greatly, depending on scope and depth of application.

Commonly Used Participatory Tools

Stakeholder analysis is the starting point of most participatory work and social assessments. It is used to develop an understanding of the power relationships, influence, and interests of the various people involved in an activity and to determine who should participate, and when.

Participatory rural appraisal is a

planning approach focused on sharing learning between local people, both urban and rural, and outsiders. It enables development managers and local people to assess and plan appropriate interventions collaboratively often using visual techniques so that non-literate people can participate.

Beneficiary assessment involves systematic consultation with project beneficiaries and other stakeholders to identify and design development initiatives, signal constraints to participation, and provide feedback to improve services and activities.

Participatory monitoring and evaluation involves stakeholders at different levels working together to identify problems, collect and analyze information, and generate recommendations.

FOR MORE INFORMATION:

- Guijt, I. and J. Gaventa (1998). Participatory Monitoring and Evaluation. Institute of Development Studies, University of Sussex, Brighton, U.K.: http://www.ids.ac.uk/ids/bookshop/briefs/brief12.html
- http://www.worldbank.org/participation/partme.htm

Public Expenditure Tracking Surveys

What are they?

Public expenditure tracking surveys (PETS) track the flow of public funds and determine the extent to which resources actually reach the target groups. The surveys examine the manner, quantity, and timing of releases of resources to different levels of government, particularly to the units responsible for the delivery of social services such as health and education. PETS are often implemented as part of larger service delivery and facility surveys which focus on the quality of service, characteristics of the facilities, their management, incentive structures, etc.

What can we use them for?

- Diagnosing problems in service delivery quantitatively.
- Providing evidence on delays, "leakage," and corruption.

ADVANTAGES:

- Supports the pursuit of accountability when little financial information is available.
- Improves management by pinpointing bureaucratic bottlenecks in the flow of funds for service delivery.

DISADVANTAGES:

- Government agencies may be reluctant to open their accounting books.
- Cost is substantial.

COST:

Can be high until national capacities to conduct them have been established. For example, the first PETS in Uganda cost \$60,000 for the education sector and \$100,000 for the health sector.

SKILLS REQUIRED:

Sound technical and analytical skills for sample and questionnaire design, data analysis and processing, and good understanding of sector to be assessed.

TIME REQUIRED:

Five to six months (survey alone takes 1-2 months).

FOR MORE INFORMATION:

http://www1.worldbank.org/publicsector/pe/trackingsurveys.htm

Cost-Benefit and Cost-Effectiveness Analysis

What are they?

Cost-benefit and cost-effectiveness analysis are tools for assessing whether or not the costs of an activity can be justified by the outcomes and impacts. *Cost-benefit analysis* measures both inputs and outputs in monetary terms. *Cost-effectiveness analysis* estimates inputs in monetary terms and outcomes in non-monetary quantitative terms (such as improvements in student reading scores).

What can we use them for?

- Informing decisions about the most efficient allocation of resources.
- Identifying projects that offer the highest rate of return on investment.

ADVANTAGES:

- Good quality approach for estimating the efficiency of programs and projects.
- Makes explicit the economic assumptions that might otherwise remain implicit or overlooked at the design stage.
- Useful for convincing policy-makers and funders that the benefits justify the activity.

DISADVANTAGES:

- Fairly technical, requiring adequate financial and human resources available.
- Requisite data for cost-benefit calculations may not be available, and projected results may be highly dependent on assumptions made.
- Results must be interpreted with care, particularly in projects where benefits are difficult to quantify.

COST:

Varies greatly, depending on scope of analysis and availability of data.

SKILLS REQUIRED:

The procedures used in both types of analyses are often highly technical. They require skill in economic analysis and availability of relevant economic and cost data.

TIME REQUIRED:

Varies greatly depending on scope of analysis and availability of data.

FOR MORE INFORMATION:

 Belli, P., et al. (2000). Economic Analysis of Investment Operations: Analytical Tools and Practical Applications. The World Bank, Washington, D.C.

GOOD PRACTICE EXAMPLES OF COST-BENEFIT ANALYSIS:

http://kms.worldbank.org/edunet/TEN_DIMENSIONS/DIM_4/cb_ce.htm

Impact Evaluation

What is it?

Impact evaluation is the systematic identification of the effects – positive or negative, intended or not – on individual households, institutions, and the environment caused by a given development activity such as a program or project. Impact evaluation helps us better understand the extent to which activities reach the poor and the magnitude of their effects on people's welfare. Impact evaluations can range from large scale sample surveys in which project populations and control groups are compared before and after, and possibly at several points during program intervention; to small-scale rapid assessment and participatory appraisals where estimates of impact are obtained from combining group interviews, key informants, case studies and available secondary data.

What can we use it for?

- Measuring outcomes and impacts of an activity and distinguishing these from the influence of other, external factors.
- Helping to clarify whether costs for an activity are justified.
- Informing decisions on whether to expand, modify or eliminate projects, programs or policies.
- Drawing lessons for improving the design and management of future activities.
- Comparing the effectiveness of alternative interventions.
- Strengthening accountability for results.

ADVANTAGES:

- Provides estimates of the magnitude of outcomes and impacts for different demographic groups, regions or over time.
- Provides answers to some of the most central development questions to what extent are we making a difference? What are the results on the ground? How can we do better?
- Systematic analysis and rigor can give managers and policy-makers added confidence in decision-making.

DISADVANTAGES:

- Some approaches are very expensive and time-consuming, although faster and more economical approaches are also used.
- Reduced utility when decision-makers need information quickly.
- Difficulties in identifying an appropriate counter-factual.

COST:

A number of World Bank impact evaluations have ranged from \$200,000 - \$900,000 depending on program size, complexity and data collection. Simpler and rapid impact evaluations can be conducted for significantly less that \$100,000 and in some cases for as little as \$10,000 - \$20,000.

SKILLS REQUIRED:

Strong technical skills in social science research design, management, analysis and reporting. Ideally, a balance of quantitative and qualitative research skills on the part of the evaluation team.

TIME REQUIRED:

Can take up to 2 years or more. Rapid assessment evaluations can often be conducted in less than 6 months.

EXAMPLES OF IMPACT EVALUATION DESIGNS

Randomized evaluation designs, involving the collection of information on project and control groups at two or more points in time, provide the most rigorous statistical analysis of project impacts and the contribution of other factors. But in practice it is rarely possible to use these designs for reasons of cost, time, methodological or ethical constraints. Thus most impact evaluations use less expensive and less rigorous evaluation designs. The following table describes four approaches to impact evaluation designs in development evaluation. The first is an example of a randomized evaluation design; the second is a quasi-experimental design in which a "non-equivalent" control group is selected to match as closely as possible the characteristics of the project population; in the third example the project population is compared with a non-equivalent control group after the project has been implemented; and the fourth is a rapid assessment evaluation which combines group interviews, key informants, case studies and secondary data. Each successive model sacrifices methodological rigor, in return from which there are significant reductions in cost and time requirements.

FOR MORE INFORMATION:

- Baker, J. (2000). Evaluating the Poverty Impact of Projects: A Handbook for Practitioners. The World Bank, Washington, D. C. http://www.worldbank.org/poverty/library/impact.htm
- World Bank Web site on impact evaluation: http://www.worldbank.org/poverty/impact/
- Roche, C. (1999) Impact Assessment for Development Agencies: Learning to Value Change. Oxfam, Oxford.

4 Models of Impact Evaluation

			Indicative cost and
Model 1 Randomized	Design Subjects (families, schools, communities	Example Water supply and san	time
r. Kandonized pre-test post-test evaluation.	etc) are randomly assigned to project and control groups. Questionnaires or other data collection instruments (anthropometric measures, school per- formance tests, etc) are applied to both groups before and after the project inter- vention. Additional observations may also be made during project implemen- tation.	water supply and sali- itation or the provi- sion of other services such as housing, com- munity infrastructure etc where the demand exceeds supply and beneficiaries are selected by lottery. Example: Bolivia Social Fund.	time which must elapse before impacts can be observed. Cost can range from \$50,000 - \$1million depending on the size and complexity of the program being studied.
2. Quasi-experimen- tal design with before and after compar- isons of project and control populations.	Where randomization is not possible, a control group is selected which matches the characteristics of the project group as closely as possible. Sometimes the types of communities from which project participants were drawn will be selected. Where projects are implemented in several phases, participants selected for subsequent phases can be used as the control for the first phase project group.	These models have been applied in World Bank low-cost hous- ing programs in El Salvador, Zambia, Senegal and the Philippines.	Cost and timing similar to Model 1.
3. Ex-post compari- son of project and non-equivalent control group.	Data are collected on project beneficiar- ies and a non-equivalent control group is selected as for Model 2. Data are only collected after the project has been implemented. Multivariate analysis is often used to statistically control for dif- ferences in the attributes of the two groups.	Assessing the impacts of micro-credit pro- grams in Bangladesh. Villages where micro- credit programs were operating were com- pared with similar vil- lages without these credit programs.	\$50,000 upwards. The cost will usually be one third to one half of a comparable study using Models 1 or 2.
4. Rapid assessment ex-post impact evaluations.	Some evaluations only study groups affected by the project while others include matched control groups. Partici- patory methods can be used to allow groups to identify changes resulting from the project, who has benefited and who has not, and what were the project's strengths and weaknesses. Triangulation is used to compare the group informa- tion with the opinions of key informants and information available from second- ary sources. Case studies on individuals or groups may be produced to provide more in-depth understanding of the processes of change.	Assessing community managed water supply projects in Indonesia.	\$25,000 upwards (the Indonesia study cost \$150,000). Some studies are completed in 1-2 months; others take a year or longer.

Additional Resources on Monitoring and Evaluation

World Wide Web sites

- World Bank Evaluation, Monitoring and Quality Enhancement: http://www.worldbank.org/evaluation/
- Monitoring & Evaluation Capacity Development: http://www.worldbank.org/oed/ecd/
- Monitoring and Evaluation News: http://www.mande.co.uk/