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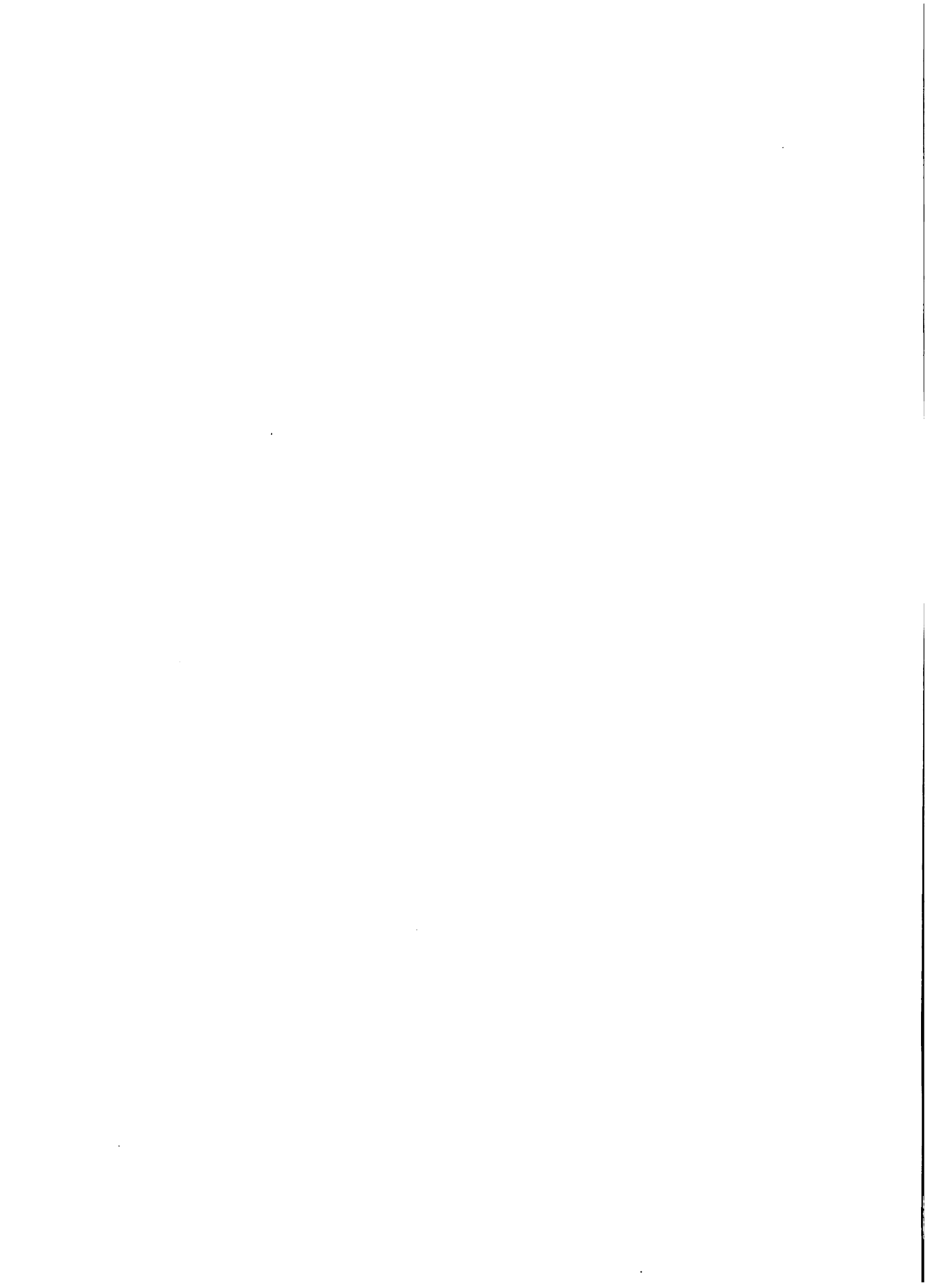
PROGRAM EVALUATION IN AID

Lessons Learned

By: Herbert D. Turner
PPC/DPRE/PE
July 30, 1976



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PROGRAM EVALUATION IN AID Lessons Learned

Program evaluation, as an instrument for management and policy formulation, has grown rapidly in developed and developing country governments and multilateral organizations. While producing much useful information, this rapid growth inevitably has been accompanied by confusion about purposes, methods, organizational arrangements and, not least, terminology.

This paper attempts to summarize a few of the principles, methods and operational lessons learned in program evaluation in AID during the past few, eventful years.

DEFINITION

In this paper, we define program evaluation as the retrospective analysis of experience to see if we achieved our stated objectives and to determine how and why it happened. Thus, program evaluation is concerned with results.*

It is useful to differentiate program evaluation from routine implementation monitoring, and at the same time to note their interdependence.

*Some development agencies use the term "ex ante evaluation" to describe pre-approval decisions about project feasibility, and the studies upon which these decisions are based. Similarly, they use the term "ex post evaluation" to describe any measurement/verification process occurring after project approval. This paper will not use such terminology.



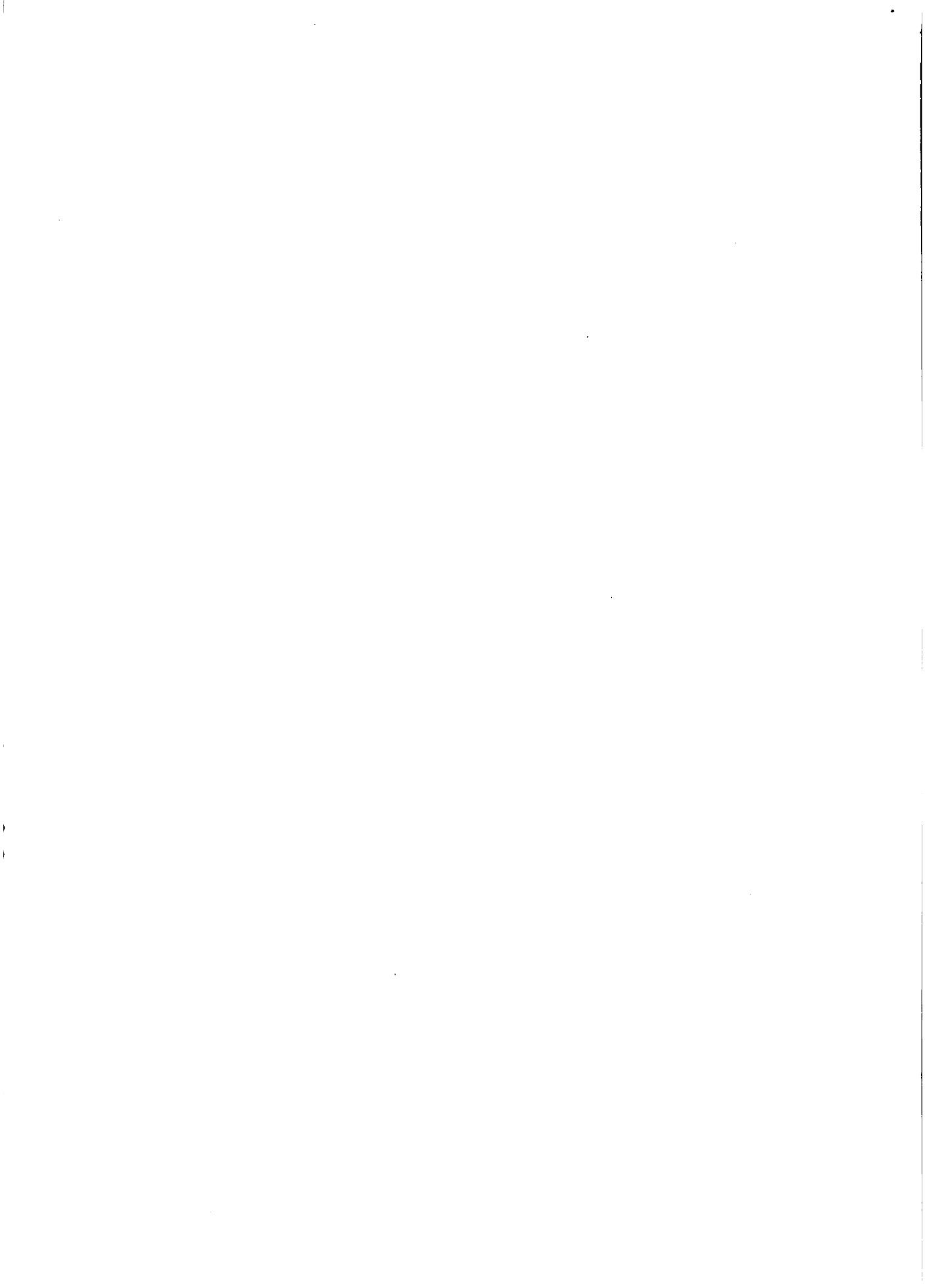
Program evaluation is a discontinuous function. The evaluator is disengaged from day to day operations and, hopefully, detached emotionally and intellectually from the program/project. The evaluator:

- ...examines the relevance of and need for the project;
- ...^{questions} the design and the underlying assumptions;
- ...^{assesses} induced change and progress toward planned targets;
- ...identifies unplanned change;
- ...attempts to identify causal factors and assess their effects;
- ...feeds his findings into redesign and improved execution.

Implementation monitoring is a continuous function. The monitor is intimately engaged in day to day operations and is usually emotionally and intellectually involved in the program/project. The monitor is concerned with:

- ...the procurement, delivery and installation of resource inputs;
- ...adherence to implementation plans;
- ...compliance with required standards and procedures.

In projects evaluated by the project management team, the evaluator and monitor may be one, requiring a periodic shift in attitude and behavior during the evaluation.



The two functions are interdependent and necessarily somewhat overlapping. The monitor generates and collects progress data needed by the evaluator; the monitor may call for an evaluation when difficulties arise; the evaluator's findings are translated into replanning actions and implemented by the monitor.

PURPOSES

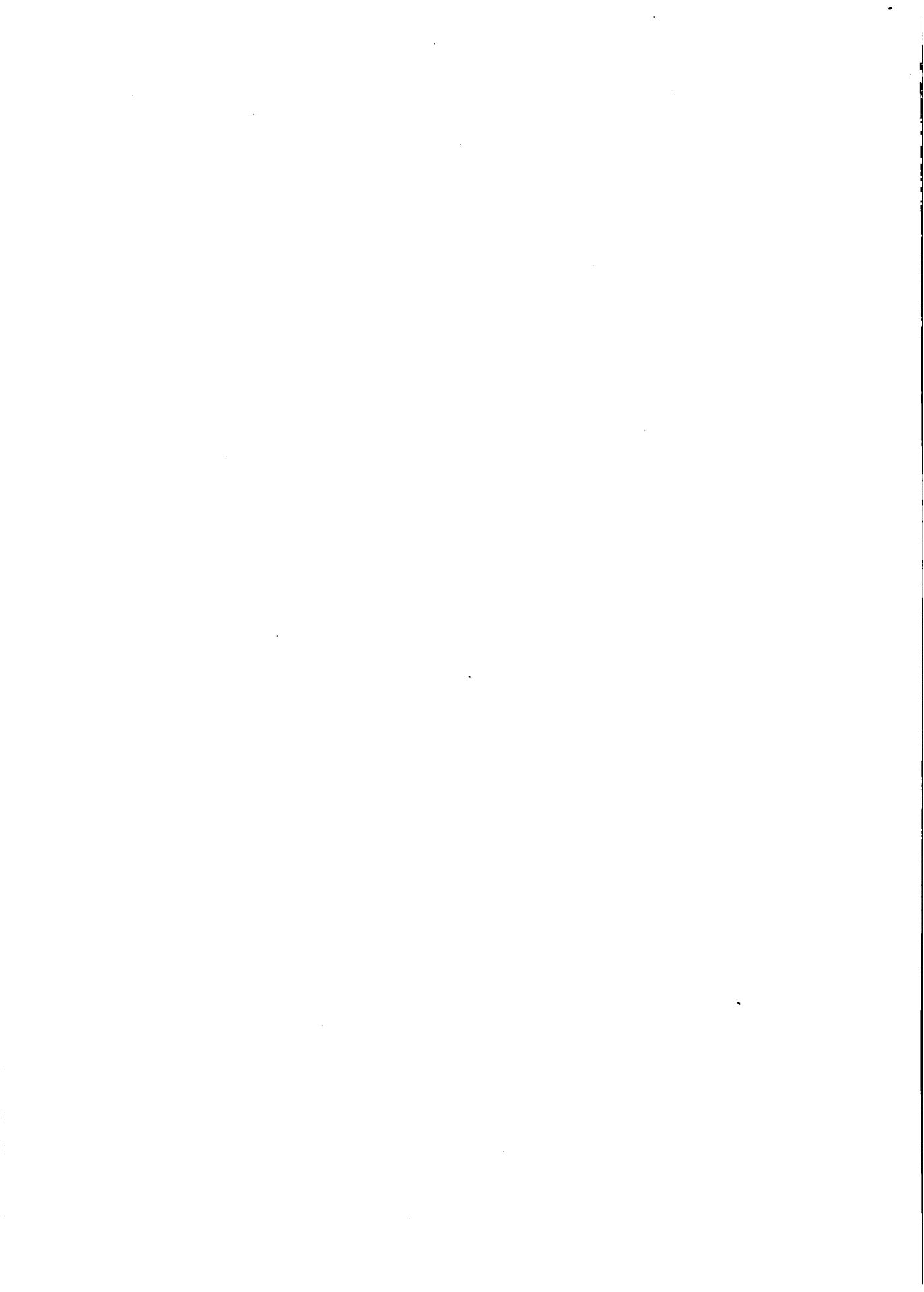
The purposes of program evaluation in most development agencies are several:

1. As an integral element in project management, evaluation is concerned with project performance or effectiveness and would include regular periodic evaluations of all ongoing projects on a decentralized basis for purposes of redesign and improved execution. This performance evaluation is intended to deal with ^{distinct} three considerations.

...Reaffirming the continued relevance of the project in the light of changes over time in host country circumstances.

...Measuring progress toward planned targets, and where progress is discernable during implementation, at the impact level; examining unplanned results.

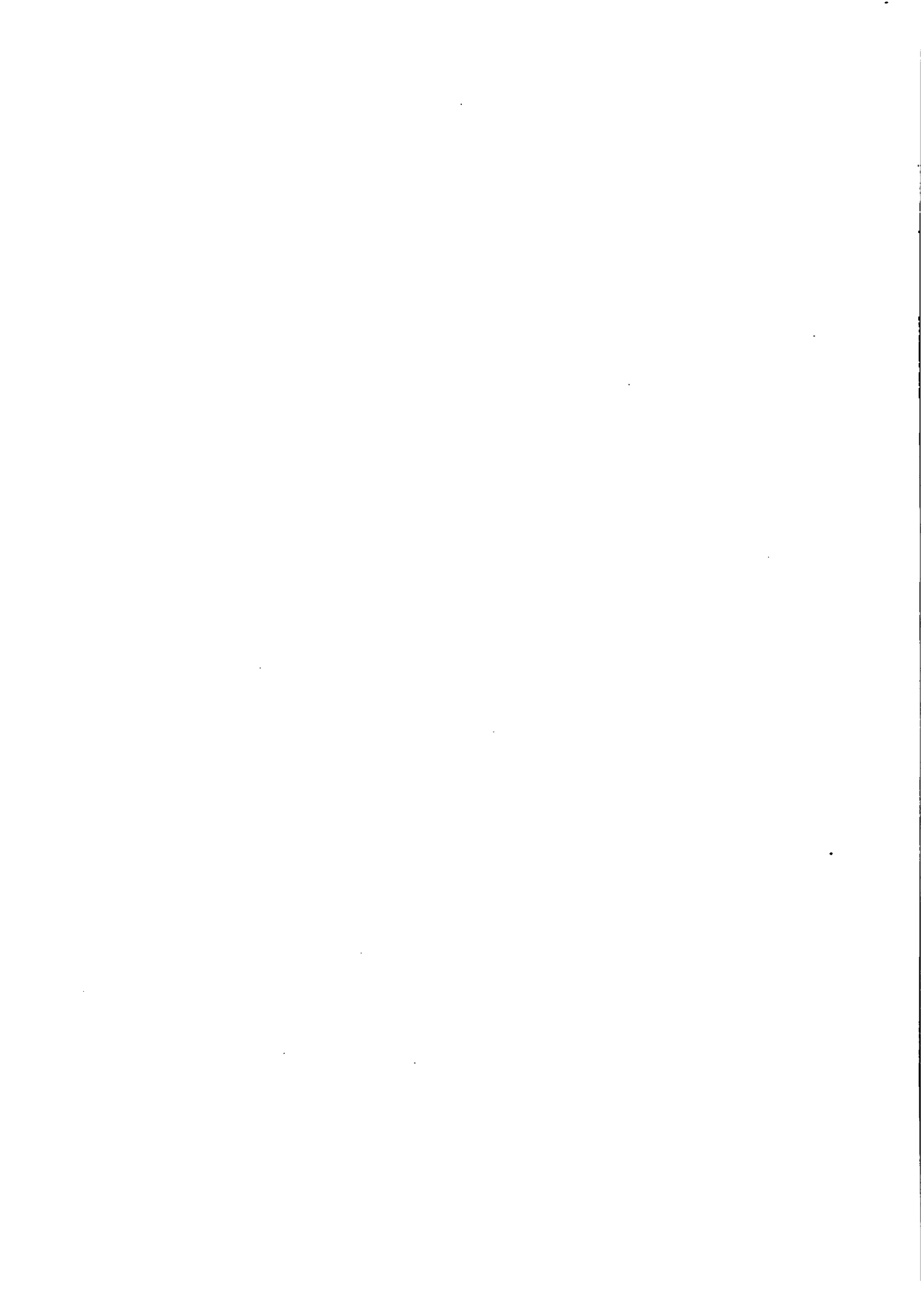
...Determining causality, i.e., what internal elements of project design and/or what external factors affected project performance and how did they operate.



2. As a device for improving resource allocation and program management, evaluation would be concerned with impact or significance and would consist largely of centrally-managed, highly selective ex post studies in depth of the impact of individual projects and sets of projects on development goals. These evaluations would complement the interim impact measurements noted above and would focus on those situations where project impact on sector/program goals was readily apparent only after project termination. The objective is the distillation of operationally useful lessons for application elsewhere.

These indepth evaluations differ from the performance evaluations noted above in that they require a greater investment of skills and other resources as well as more extensive and intensive data collection and analysis.

3. As a means of policy formulation, evaluation is concerned with

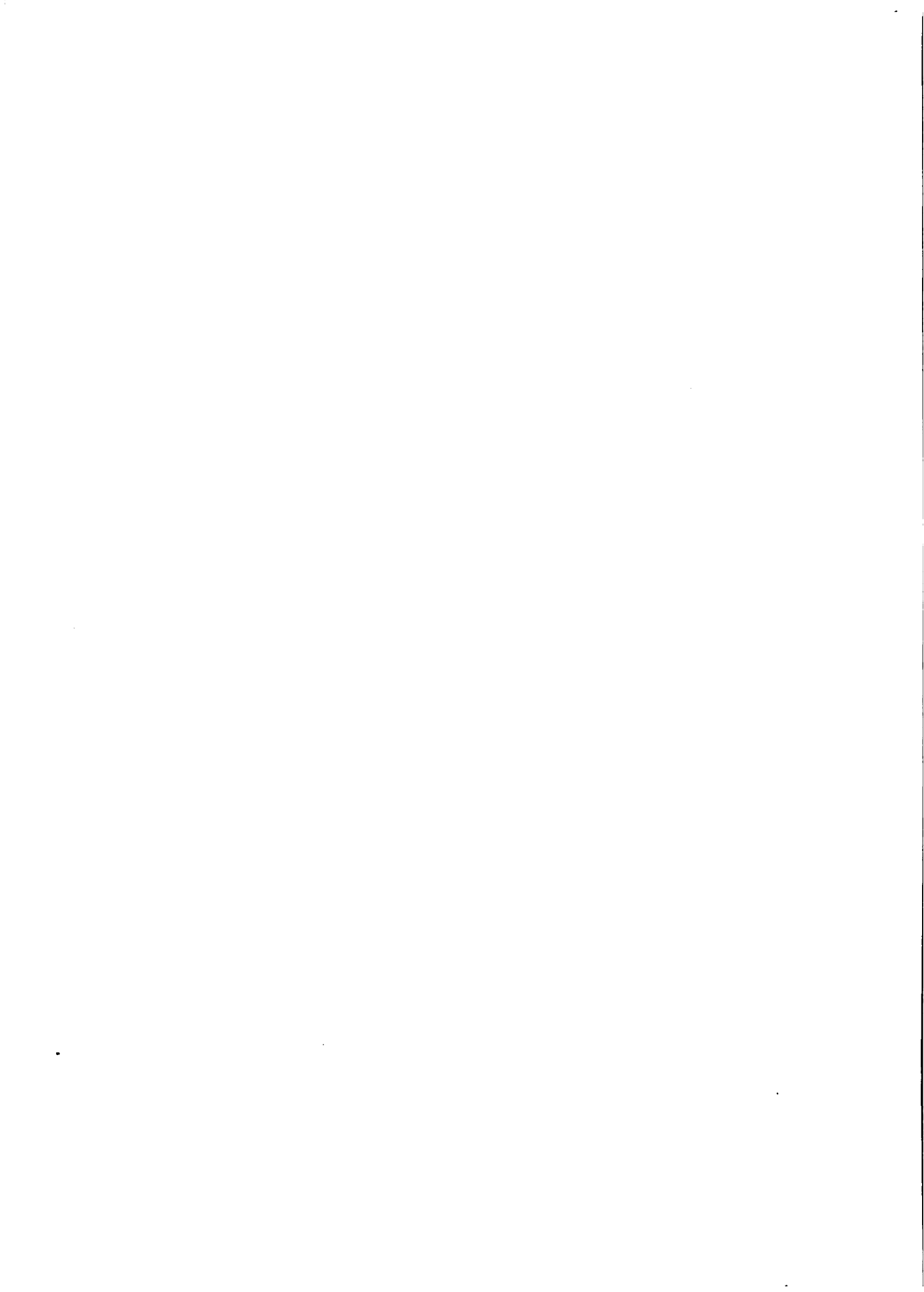


the retrospective examination of program ^{issues} which are not country-specific. These would include such subjects as the role of agricultural credit in rural development, the effects of price policies on agricultural production, the impact of land reform/land tenancy arrangements on rural development, etc.

PRINCIPLES

Several operational principles have emerged from recent experience which govern the design and evaluation practices of a development organization.

1. The effectiveness of the evaluation process is largely dependent upon the quality, explicitness and rigor of program/project design; the quality of design is the major limiting constraint in evaluation.
2. Evaluation must comprehend the total program/project. It is neither feasible nor productive to limit the evaluation process to the fractional resource input of a single source or donor.
3. Evaluation should not be conducted for its own sake or to generate potentially useful information. Evaluation should be decision-driven i.e., evaluation should be undertaken only in response to a need for a decision or for formulation of plans, programs or policies based upon the evaluation findings. Consequently, evaluations findings



should be packaged and timed for the needs of the decision maker. ✓

4. The responsibility for evaluation should be placed, functionally and organizationally, as close as possible to the user who will base his decision on the evaluation findings, i.e., the feed-back loop should be as small as possible.

5. The host country should take the leading role in evaluating donor assisted projects with the donors playing a supportive role. Where the host country does not have adequate capacity for evaluation, the donors should offer training in evaluation methodology both on a general basis and on a project-specific basis.

6. In designing and implementing evaluation studies, maximum use should be made of host country skills and resources, e.g., local universities, consulting firms, etc.

7. Achieving maximum transfer and utilization of evaluation findings to similar projects/programs in other countries, requires an information system capable of collecting, storing, matching, retrieving, and disseminating experiential data.

THE PRECONDITIONS FOR EVALUATION

The key element both in project design and evaluation in AID is the establishment of a logical framework for the project. The logical



framework assists the designer to structure the project design

in the following manner:

1. To define a causal hierarchy of project inputs, outputs, purpose, and higher goal in measurable or objectively verifiable terms:

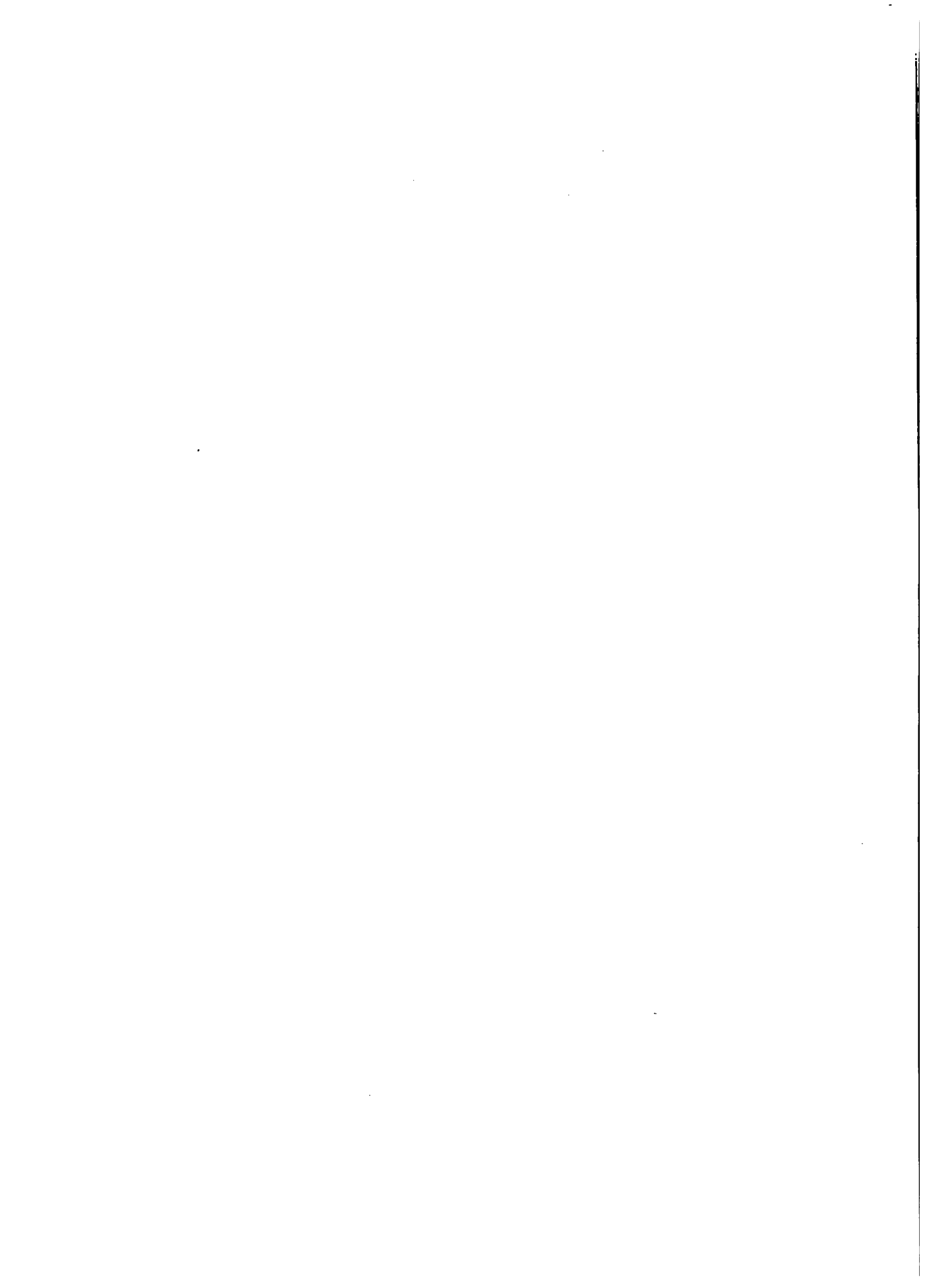
Project Outputs are defined as the specifically intended kind of results (as opposed to their magnitude) that can be expected from good management of the inputs provided. Outputs are also defined as the preconditions necessary to the achievement of the project purpose.

Example: Manpower, training, machinery and building materials (inputs) can be managed to produce an irrigation network, trained operational staff, a water utilization schedule and a user rate scale (outputs).

Project Purpose is defined as the primary reason for the project, i.e. the result which is expected to be achieved or the problem which is to be solved if the project is completed successfully and on time.

Example: An irrigation network and associated facilities and services (outputs) are intended to produce increased per hectare yield (project purpose).

Sector/Program Goal is defined as the programming level beyond the project purpose, i.e., the next higher objective to which



the project is intended to contribute.

Example: Increased per hectare yield (project purpose) is intended to result in expanded exports of agricultural crops (sector goal).

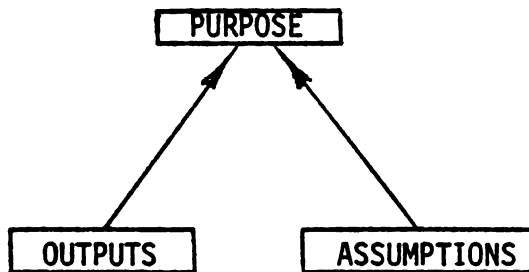
2. To hypothesize the causal (means-end) linkages between inputs, outputs, purpose and goal. Each of these target levels must exist before the next can be achieved. The existence of one of the levels does not however guarantee that the next level will be achieved. Factors outside the project design (farmer attitudes, access to credit) may prevent achievement of the next level. Thus the causative relationship between any two levels in the hierarchy must be stated as a hypothesis, the external factors must be explicitly identified, and assumptions made about their behavior and probability of happening. Evaluation must then verify whether or not the hypothesis was realized.

3. To articulate the assumptions about external influences and factors which will affect the causal linkages. Assumptions are defined as external situations or conditions which must be assumed to exist or to be brought about if the project is to succeed, but over which the project management team has little or no control. Example: Increased crop yield (project purpose) will contribute to expanded

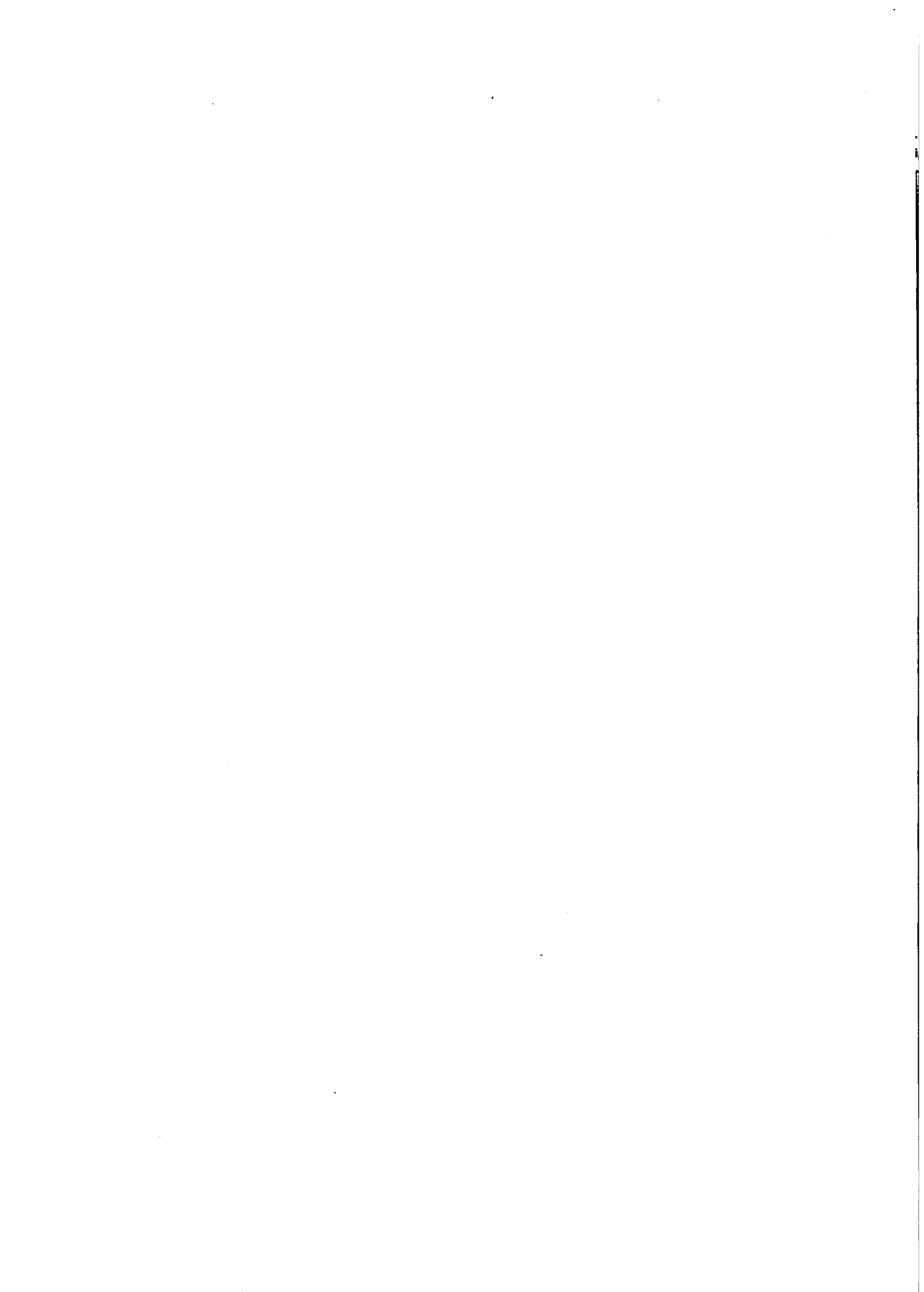


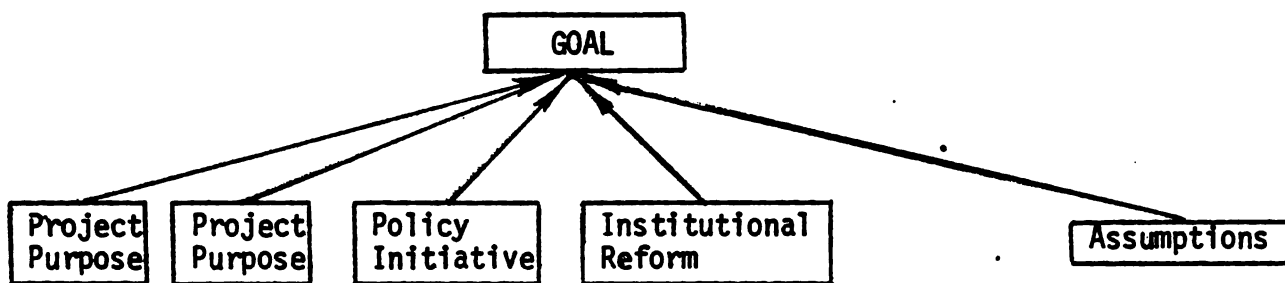
export of agricultural crops (sector goal) only if price and market conditions are favorable (assumption).

The concept of causality rests on the basic premise that each level in the causal hierarchy can be shown to be not only necessary but also sufficient to cause the next higher level to be achieved. Each causal linkage must be tested to assure that a given target level (e.g., outputs), in concert with the assumptions at that level, are necessary and sufficient to achieve the next level (purpose).



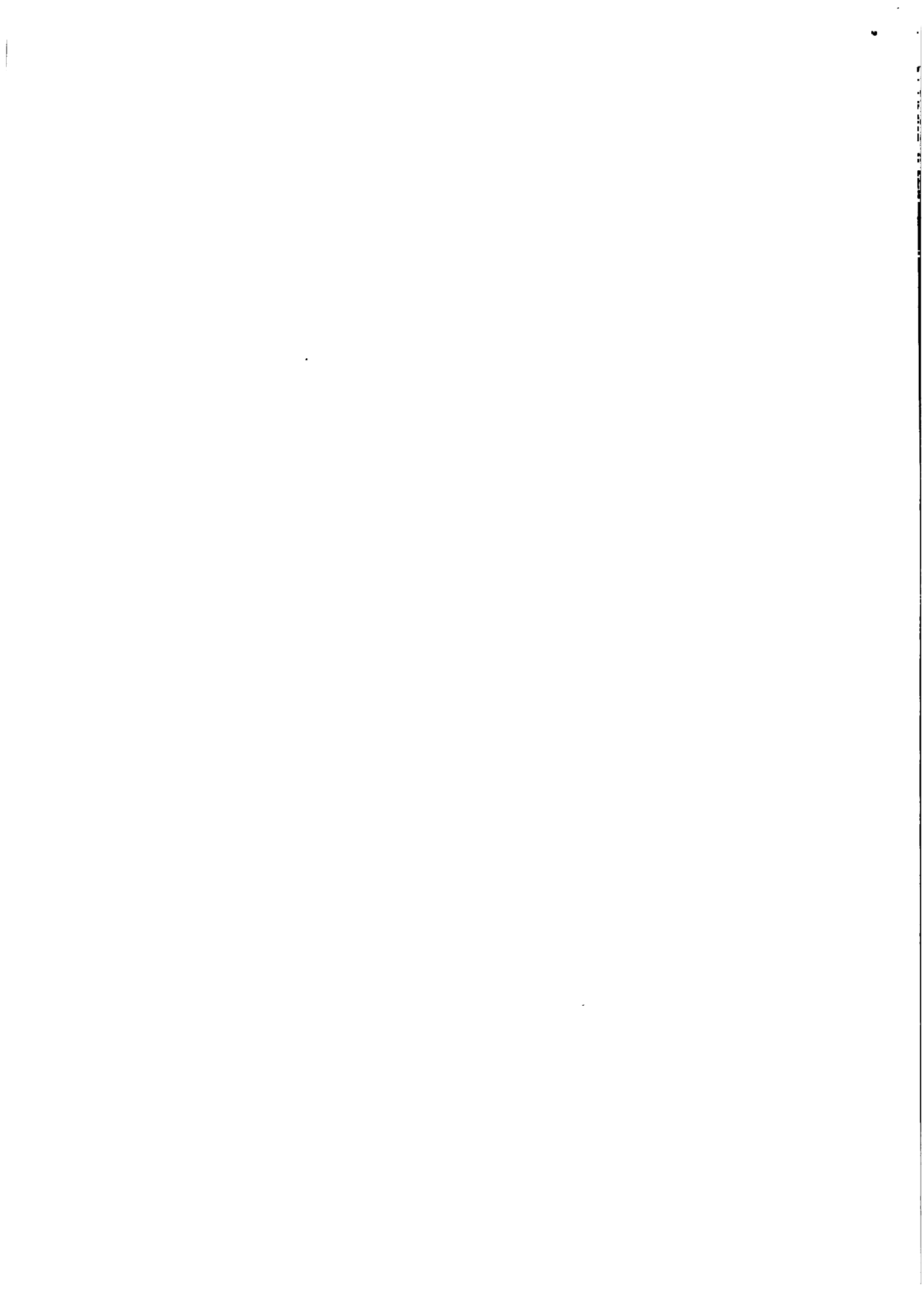
At the purpose-to-goal linkage, the causal model is basically the same although somewhat more complex in scope. This is because the necessary and sufficient conditions must include all projects as well as nonproject initiatives (e.g., institutional, policy and other reforms) - contributing to the goal.





4. To establish the progress indicators which will permit subsequent measurement or verification of achievement of the defined outputs, purpose, and goal. Progress indicators are defined as pre-established criteria or measures of an explicit and specific nature designed to provide objective assessment of project progress. Progress indicators should be objectively stated so that both a proponent of a project and an informed skeptic would agree that progress has or has not been as planned. Pre-establishing objectively verifiable progress indicators and targets helps focus discussion on evidence rather than opinions.

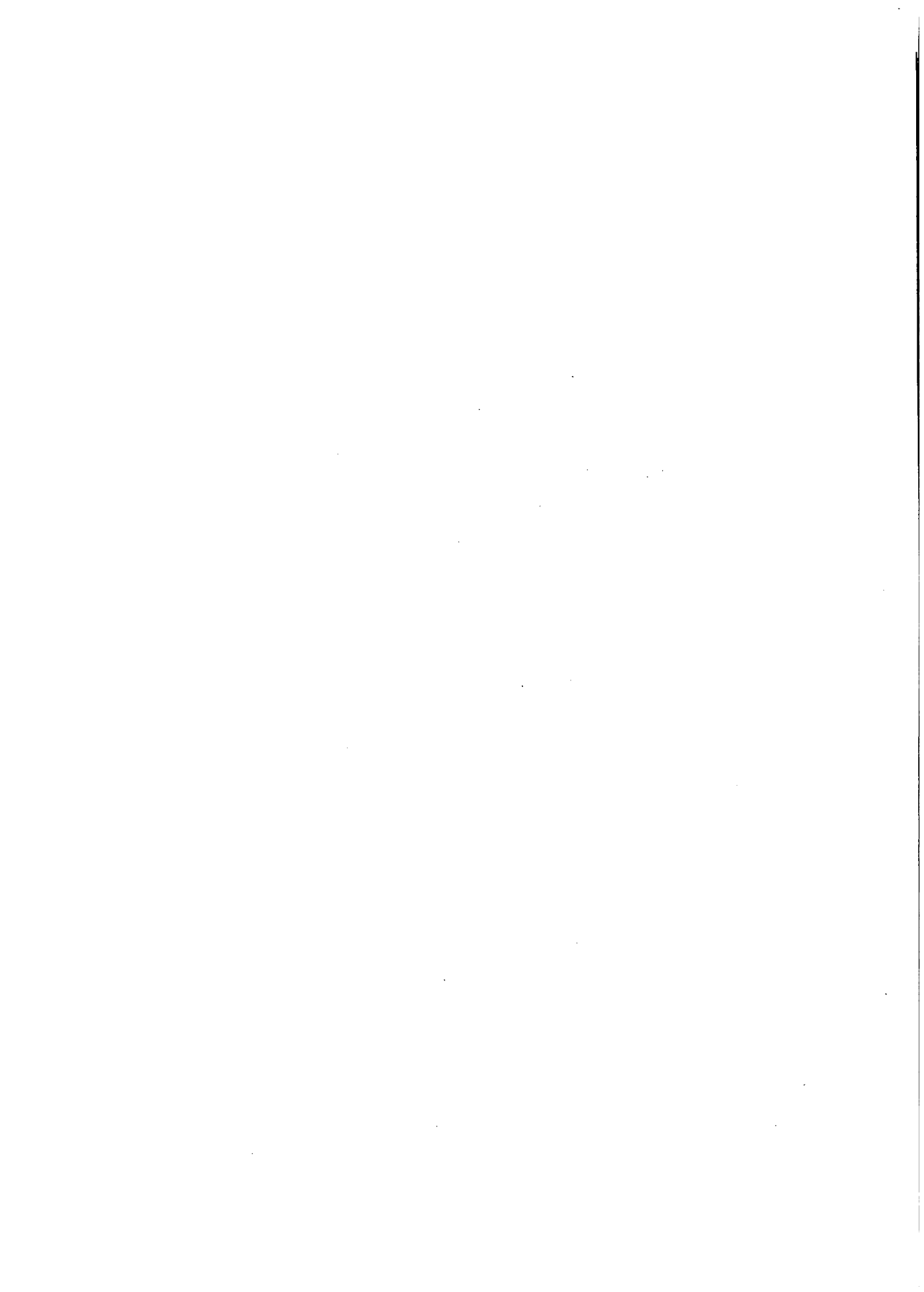
The logical framework is primarily a project planning device. It also is used for re-examination of the original design of ongoing projects as a necessary prelude to evaluation, i.e., it sets the stage for determining and validating whether or not the project outputs are being produced, whether these outputs in fact are serving to achieve the project purpose; and finally whether this achievement is making a significant contribution, as planned, to the higher order goal.



The logical framework also is used to set the practical limits of responsibility of project management. Articulating the project planning assumptions in explicit and operational terms permits a clearer separation between manageable interests and those factors which appear to be beyond the control of the project management team. The input-to-output level is largely susceptible to managerial control with relatively few uncontrollable external factors. At the output-to-purpose level, the possibility of managerial control decreases while external factors become more important. At the purpose-to-goal level, the ability of project management to predict and control events usually is further diminished.

In addition to the logical framework elements noted above, the project design process must also contain such evaluation information and actions as:

- ...collection of baseline data;
- ...review of prior experience with similar projects elsewhere, to the extent possible;
- ...provision for experimental, quasi-experimental or other evaluation approaches.
- ...establishment of schedules for recurring evaluations with timing keyed to decision-making.

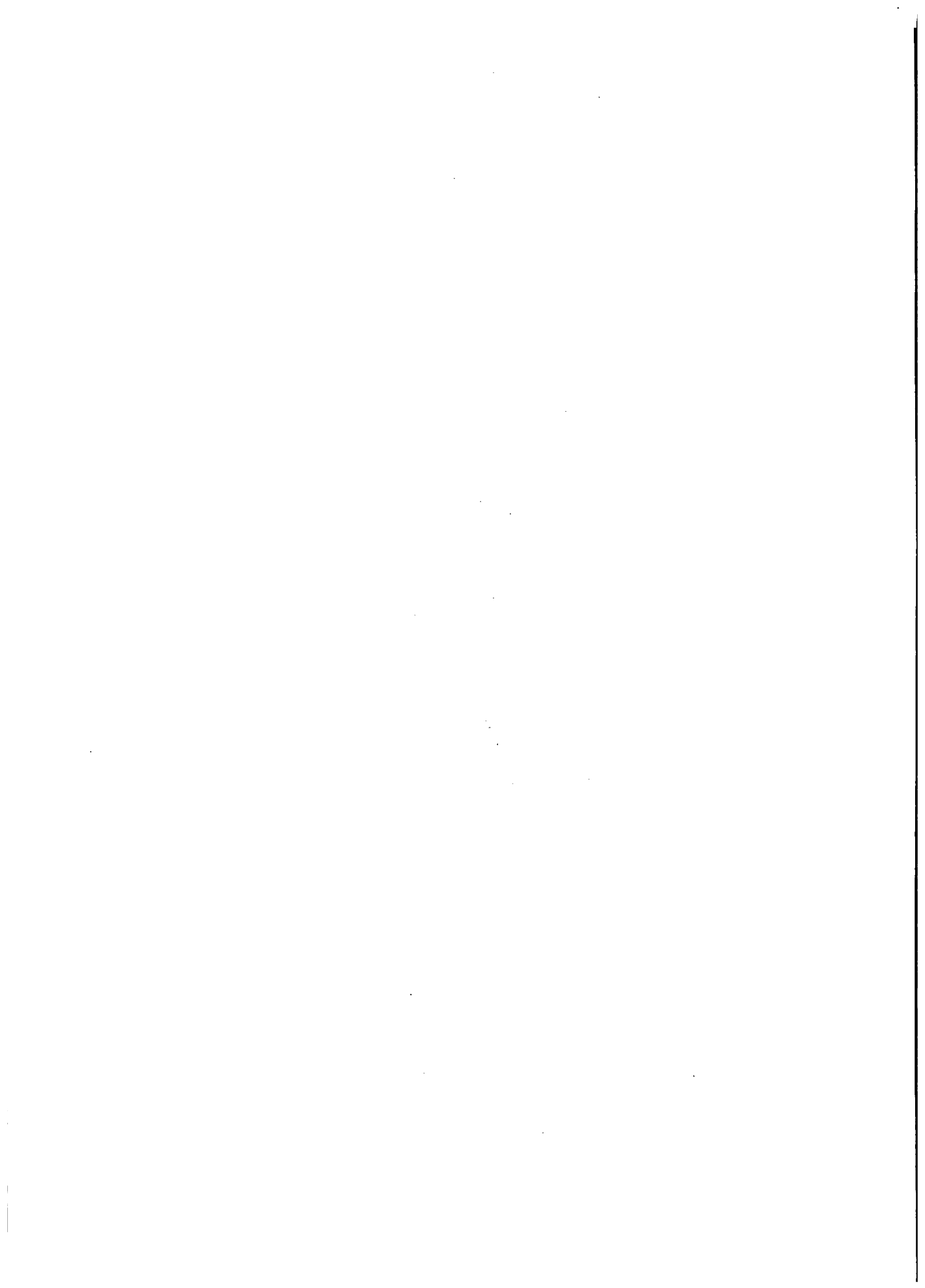


For ongoing projects, if these evaluation elements and actions were not built into the design, evaluation will be difficult.

Experience in evaluating ongoing development programs/projects has shown:

- # For most projects it is not possible to evaluate progress toward established targets in a meaningful way until (1) the evaluator has considered any changes in the host country socioeconomic setting which may have significantly affected the project, and (2) the existing project design has been reexamined and clarified.✓

- # The first of these considerations, the assessment of changes in the host country socioeconomic setting, may well be demanding and difficult, requiring data collection and analysis as well as extensive discussion with all collaborating agencies. It includes such questions as:
 - a. Changes in the nature and magnitude of the problem to which the project is addressed.
 - b. The continuing validity of original feasibility data and estimates.
 - c. Changes in physical and environmental conditions.
 - d. Changes in demand and other economic variables.



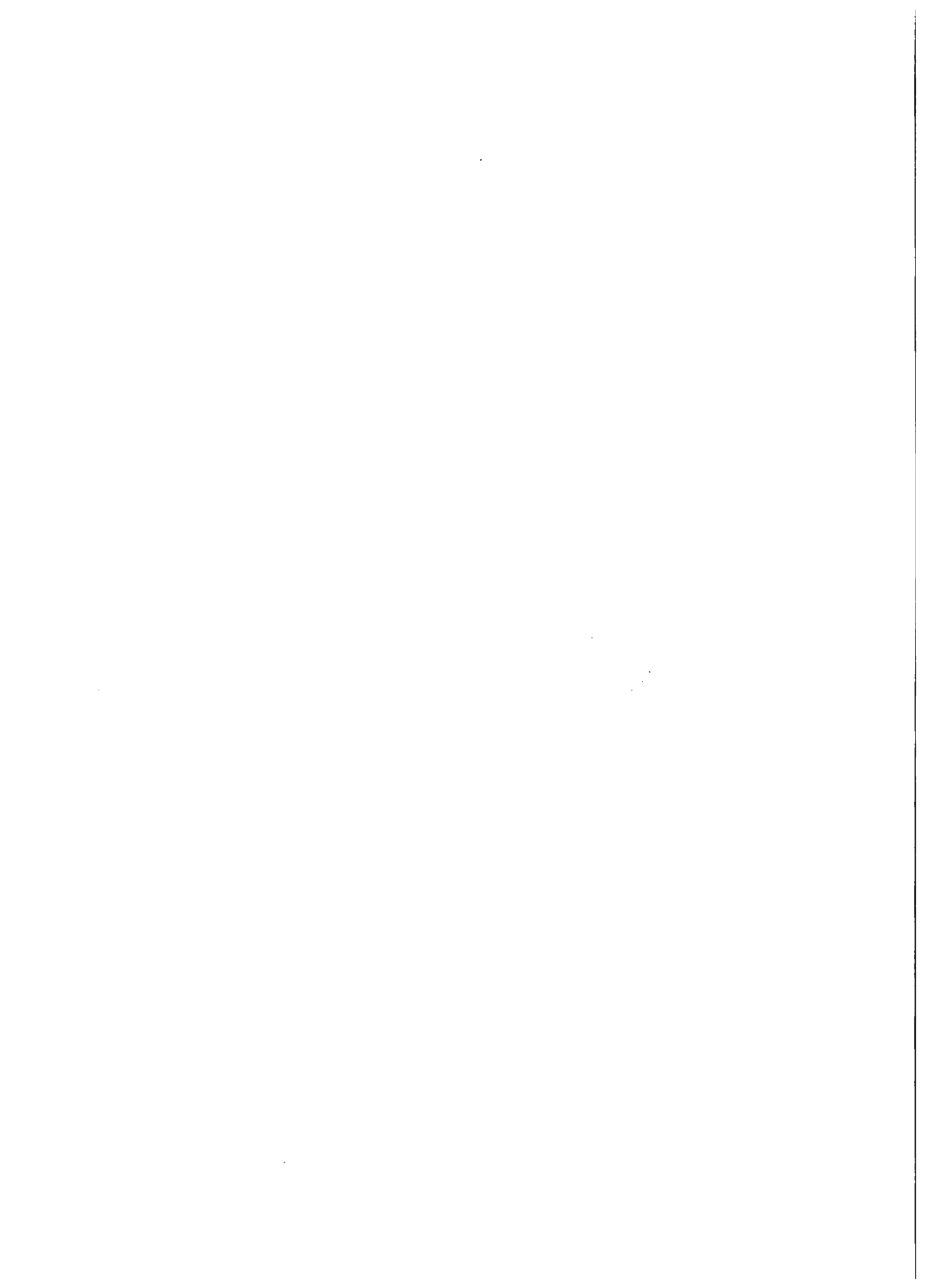
- e. Changes in attitudes and other social variables.
- f. Changes in host country development policies and priorities.

When this assessment of changes in the project setting results in substantial redesign, it may not be possible to evaluate progress toward the new targets immediately. Depending upon the extent of the redesign and the revised implementation plan, it may be appropriate to postpone the evaluation for a year or more.

KINDS OF EVALUATION

There are several forms and types of evaluations used in development organizations.

Formative evaluation is used when the project/purpose is not readily definable in precise and explicit terms and when the strategy for achieving that objective is even less clearly understood. In such circumstances formative evaluation is used periodically to explore experience to date in order to permit managers progressively to sharpen the definition of the purpose and to formulate a viable strategy for achieving it.



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✓ Summative evaluation is used when the objective is clearly defined and there exists a high level of confidence in the strategy for achieving that objective. In this instance summative evaluation merely attempts to measure progress towards the objective,

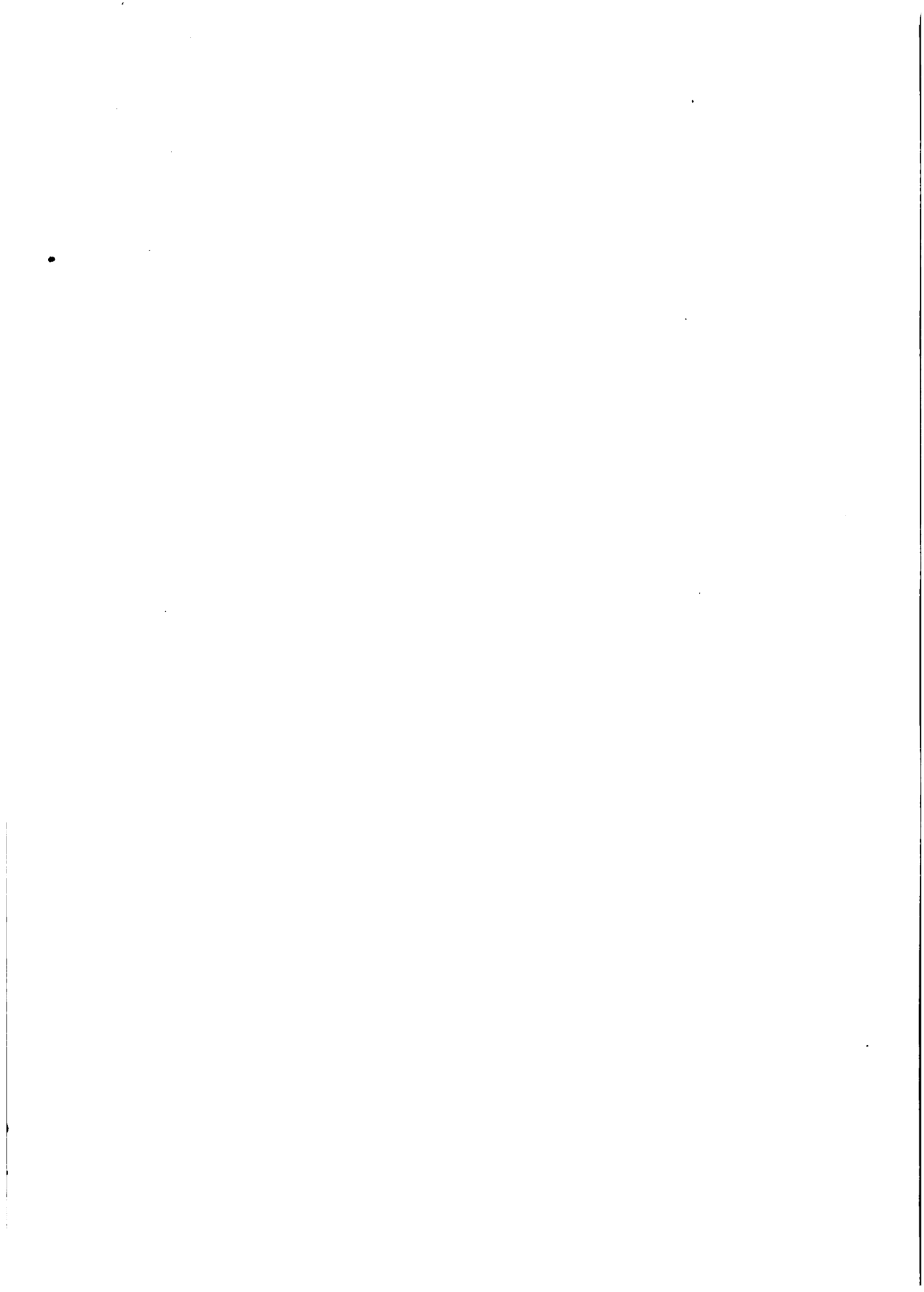
The goal attainment evaluation model is used when the project/programme has a single predominant objective. This model is widely known and used; it is relatively low-cost and imposes modest skill requirements.

The systems evaluation model is utilized for institution building and for complex projects/programmes with multiple (and possibly competing or conflicting) objectives. It is not yet widely used because it is not well understood and its cost is high in terms of the skills required.

Many institutions engage in an either/or debate about the comparative advantages of ongoing evaluation vs ex post evaluation of completed programs/projects. Both are needed.

Evaluation of ongoing projects is a program management function intended to:

assure the efficient use of scarce resources;



- # measure effectiveness in achieving planned project objectives;
- # confirm the continuing relevance of the project in the light of changing circumstances.

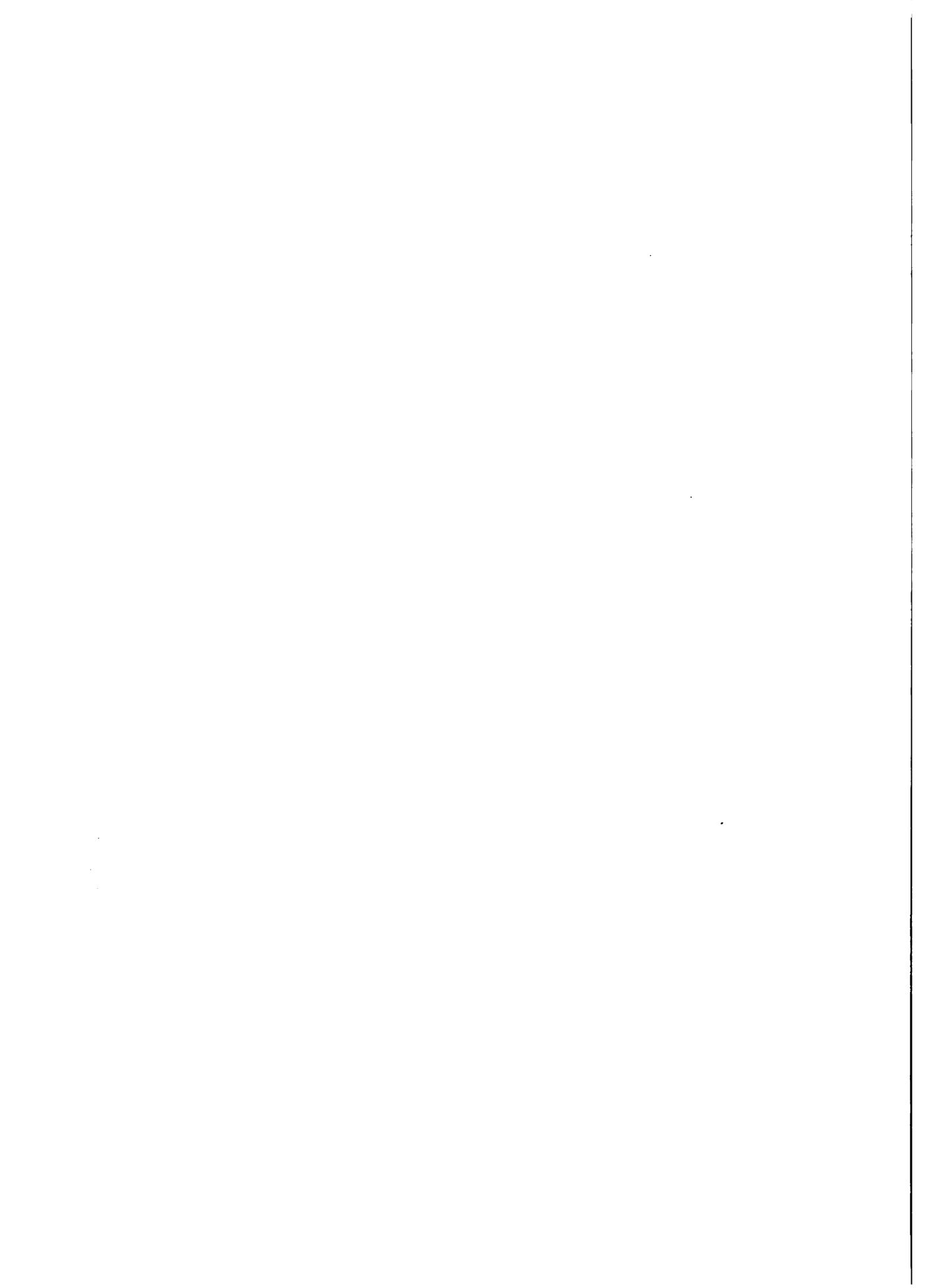
Ex post evaluation of completed projects is a program policy and management function and is intended to:

- # give a final accounting to the sponsors and supporters of the project;
- # identify possible ^{new ventures} follow-on opportunities for the host country;
- # derive lessons from past experience which can be applied to the design of similar projects and to the formulation of program criteria and policy.

MEASUREMENT AND VERIFICATION

The design of the program/project rests on a structured hierarchy of objectives (inputs-outputs-purpose-sector/program goal) connected by hypothesized causal linkages (e.g., if outputs, then purpose). The task of the evaluator is to verify these hypotheses.

If the project design provides for the evaluative preconditions described above, then measurement and verification can be relatively simple and routine, i.e., measuring change using the previously formulated progress indicators and drawing on the progress data collected during implementation.

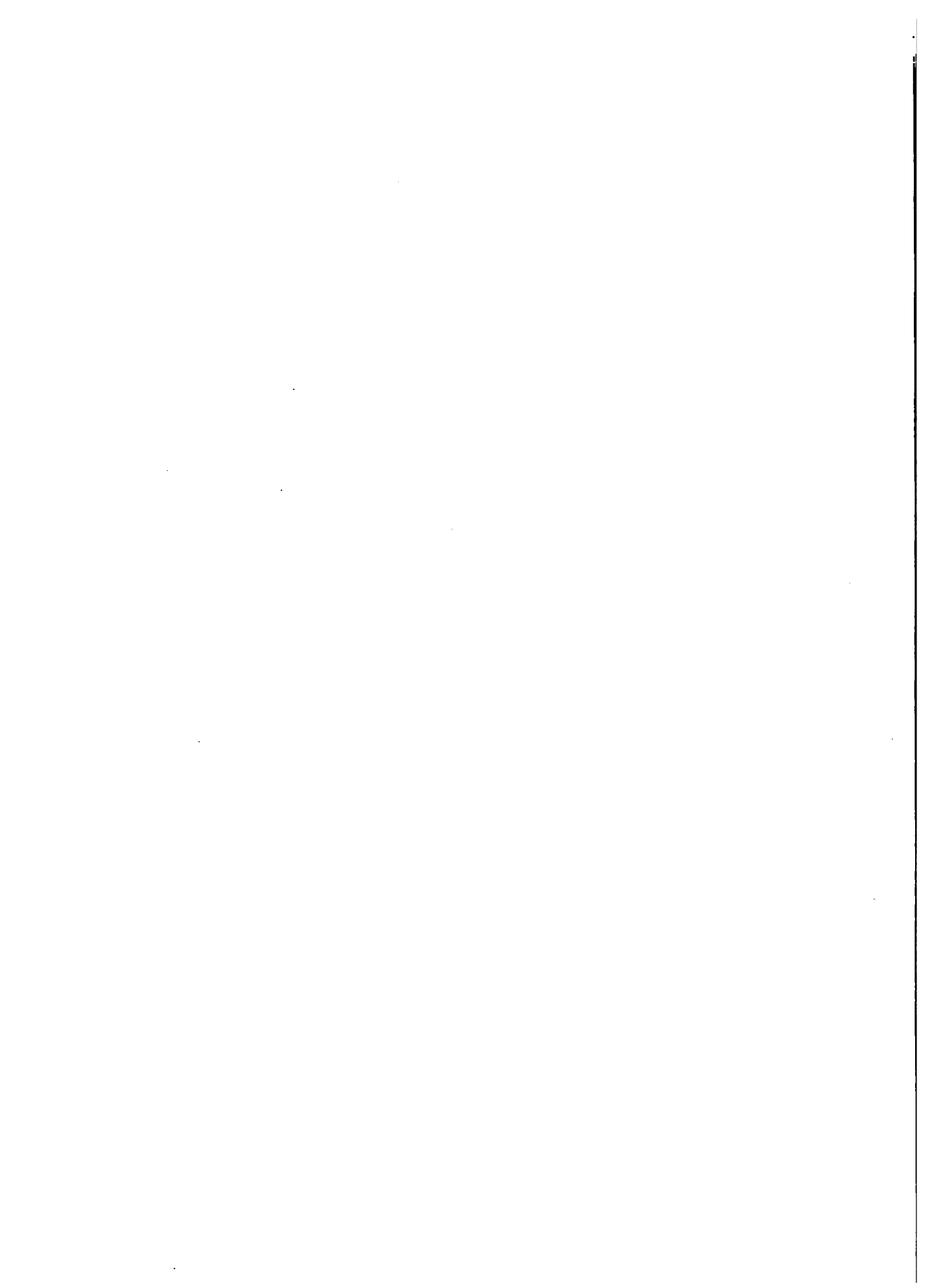


Program and policy evaluation, involving aggregations and inter-country comparisons of projects and programs generally follows the same basic evaluative process as is followed in project evaluation.

If the desired changes did not occur - or if they occurred and an explanation is needed of how and why they occurred - then the evaluator must delve deeper.

The resources available to AID and the operational conditions in the less developed countries have inhibited extensive use of experimental or quasi experimental design, except in special cases. This does not reduce the need for analytical rigor in design and evaluation. It is possible for the evaluator to simulate the rigor of a controlled experiment by the proper use of baseline data, explicit definition of targets, and the retrospective verification of project hypotheses.

Such retrospective verification includes careful examination of the nature of the processes through which the hypothesized causal linkages occurred or failed to occur. Verification/validation of the hypotheses might be approached through direct observation; the use of proxy or surrogate measures; examination of differences in results/impact among target subgroups within the treated areas, and of the independent variables associated with those differences;



statistical techniques such a multivariate analysis; etc.

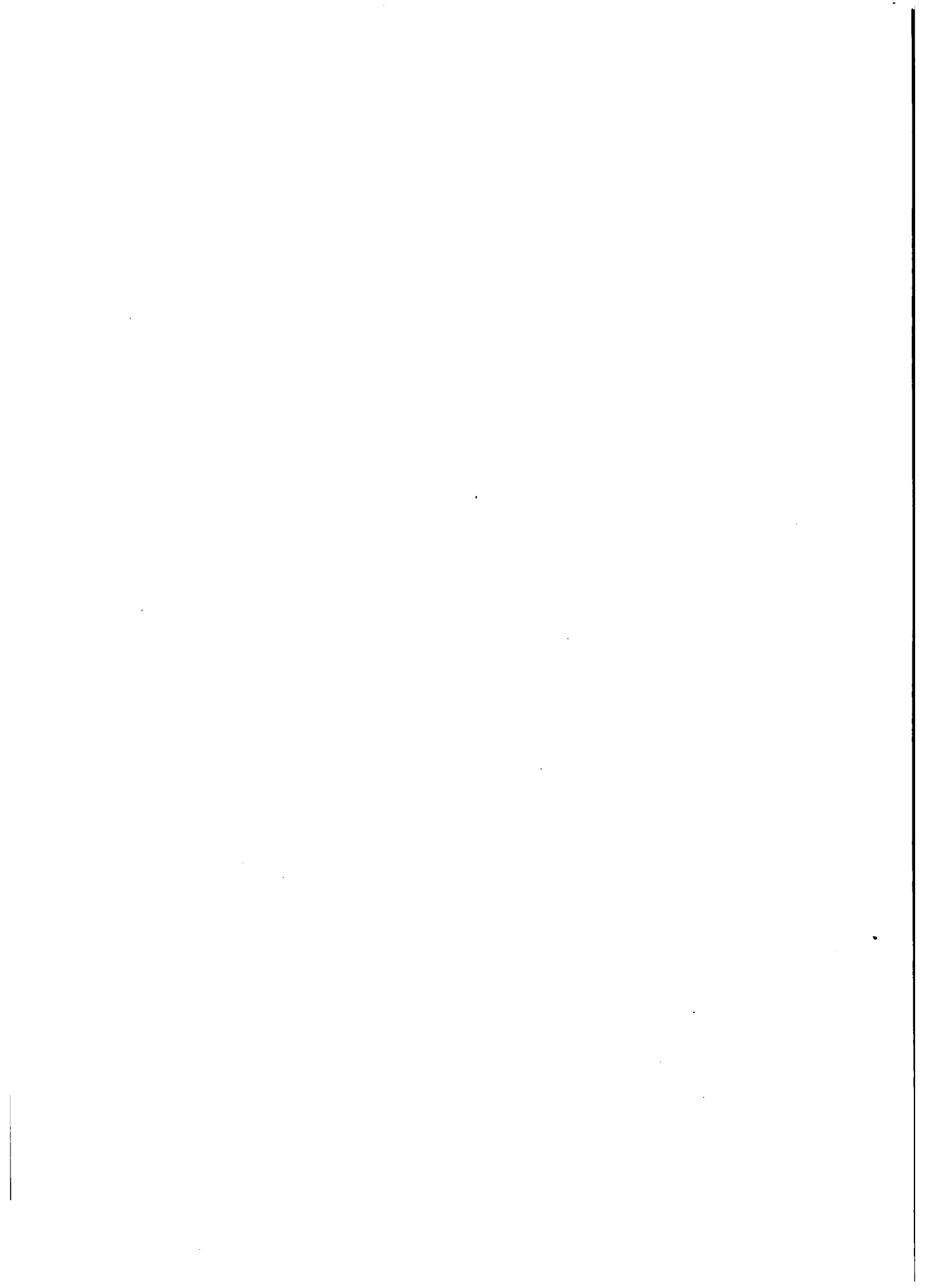
Verification can also be approached by formulating alternative hypotheses to explain changes. If none can be developed or if plausible alternative explanations can be disproven, this suggests at least partial validation for the original hypotheses. Conversely, if the alternative hypotheses can be supported to the point that they become persuasive, then the original hypotheses lose credibility.

While such retrospective methods would appear less satisfactory than the classical experimental design, the operational realities of a development assistance program usually favor the former.

The evaluation findings should be reviewed to establish implications and conclusions for further action. The review should include all interested parties: the host country, the implementing agents, all donors. The climate should be collaborative and constructive, not threatening; replanning, not recrimination is the intent.

ROLES AND RELATIONSHIPS

Two closely related pairs of issues require thoughtful consideration.



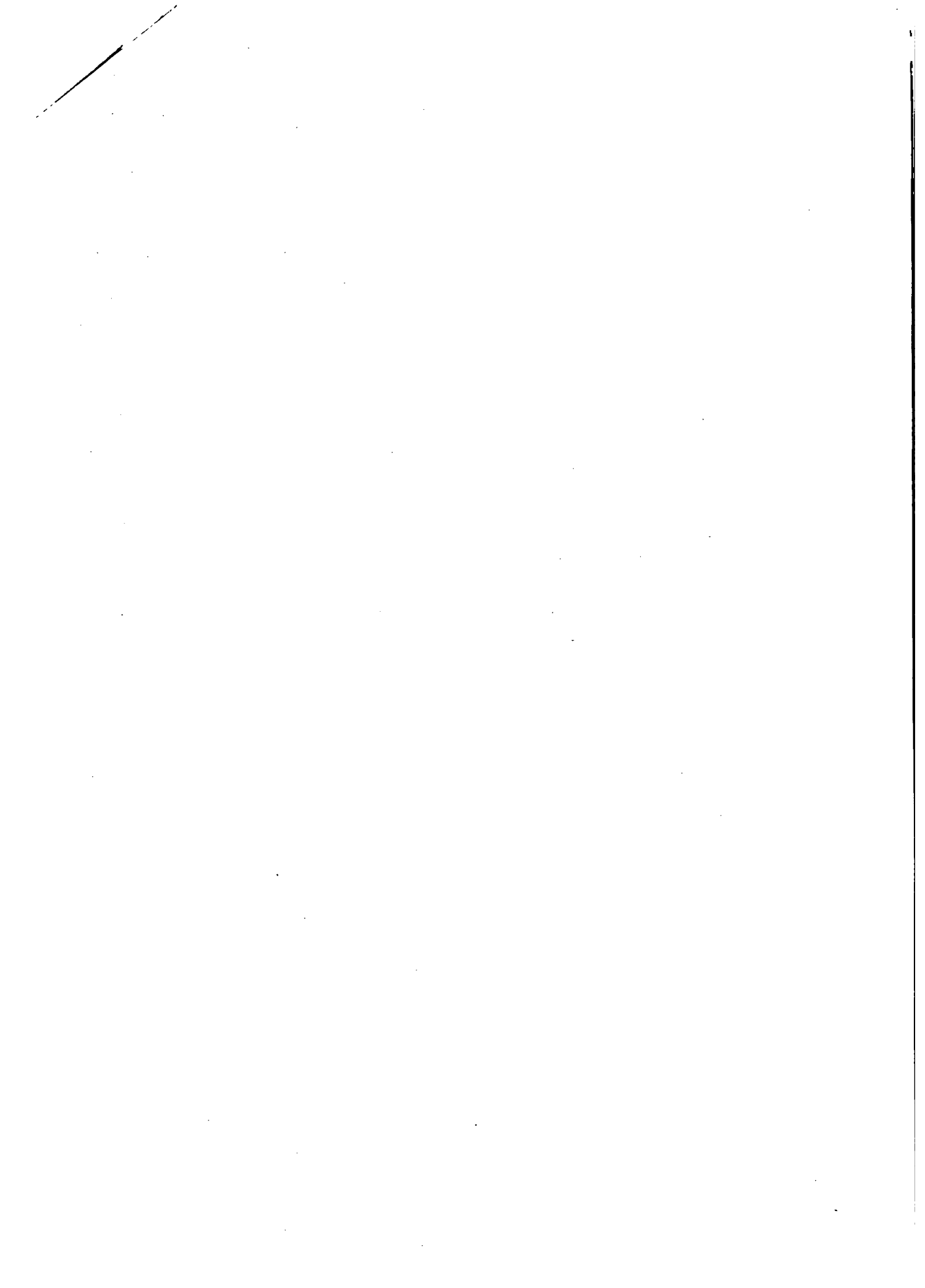
1. Should the evaluation responsibility be centralized (i.e., evaluations performed by a central evaluation unit) or decentralized?

Outlines

The critical criterion is that responsibility for conducting evaluations should be located functionally and organizationally as close to the decision-making point as possible, i.e., the feedback of findings into decision-making should be as direct and immediate as possible. Application of this criterion suggests that:

- # evaluation of progress and of continuing relevance of individual projects be decentralized to the project management team. ✓✓
- # evaluation of experience to formulate policy and program criteria be done by a centralized unit concerned with policy and program coordination.
- # evaluation of programs and groups of projects for program management purposes be done at an intermediate level, e.g., regional or technical offices.

2. Should evaluations be conducted by in-house staff (e.g., those with program/project implementation responsibilities) or by outside experts? Operational experience shows that project managers can



evaluate progress and the continuing relevancy of their own projects candidly and objectively if there is a climate of constructive inquiry rather than a climate of recrimination. There are simple criteria to guide the choice.

IN-HOUSE

- Greater knowledge of the environment and of specific operations is required.
- Direct and immediate feedback of findings into replanning.
- Lower unit cost - broader evaluation coverage.

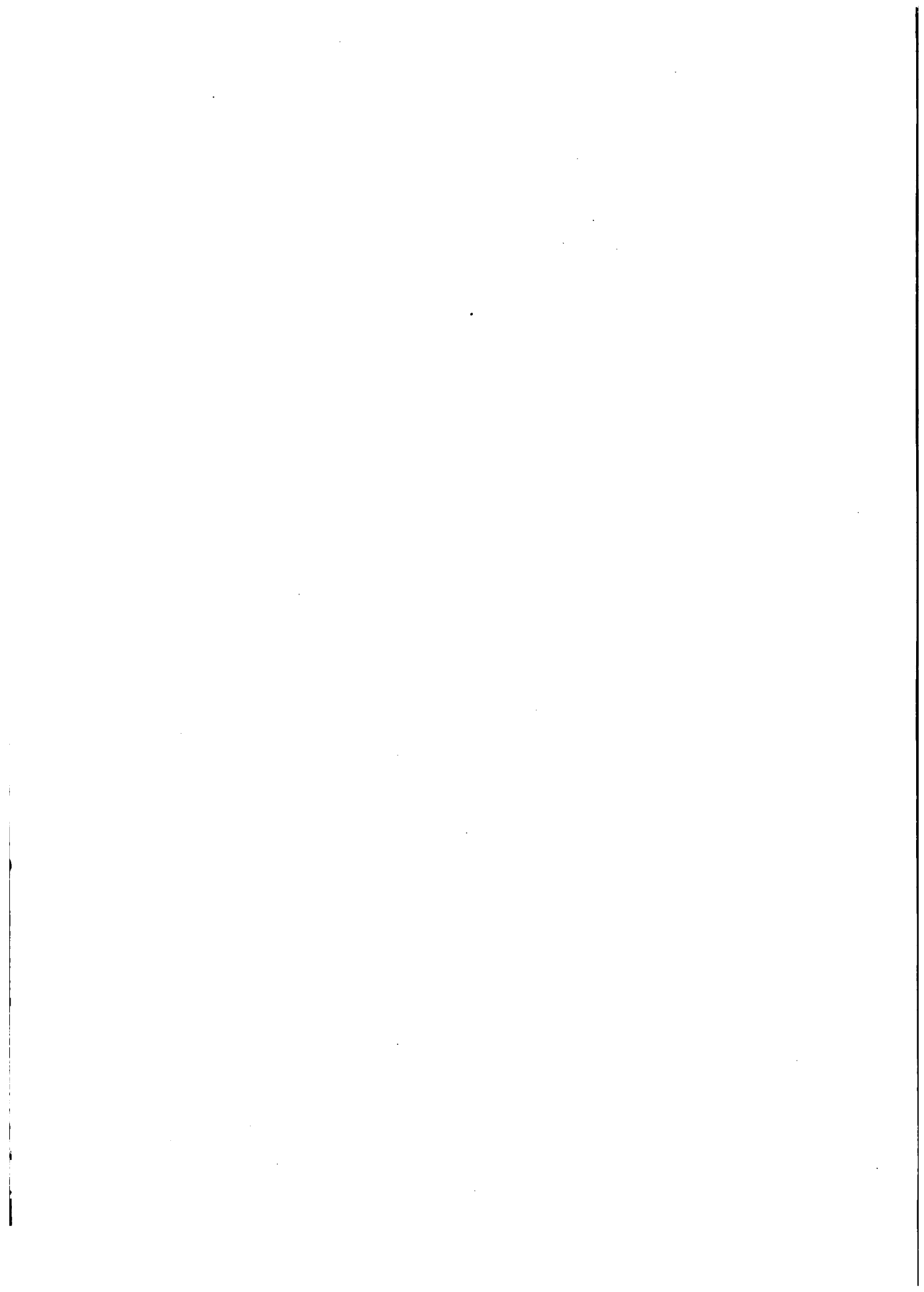
OUTSIDE EXPERTS

- Disinterested objectivity is ^{essential} paramount and must be demonstrated.
- Greater and more recent technical knowledge is required.
- Evaluator must be free from operational workload for extended period.

Basically, it should not be an either/or choice. Both kinds of evaluation are needed and a combination of inhouse and outside experts often provides the best arrangement.

Irrespective of the extent to which program evaluation is decentralized, there is a need for a central program evaluation unit to assure that evaluation is occurring and:

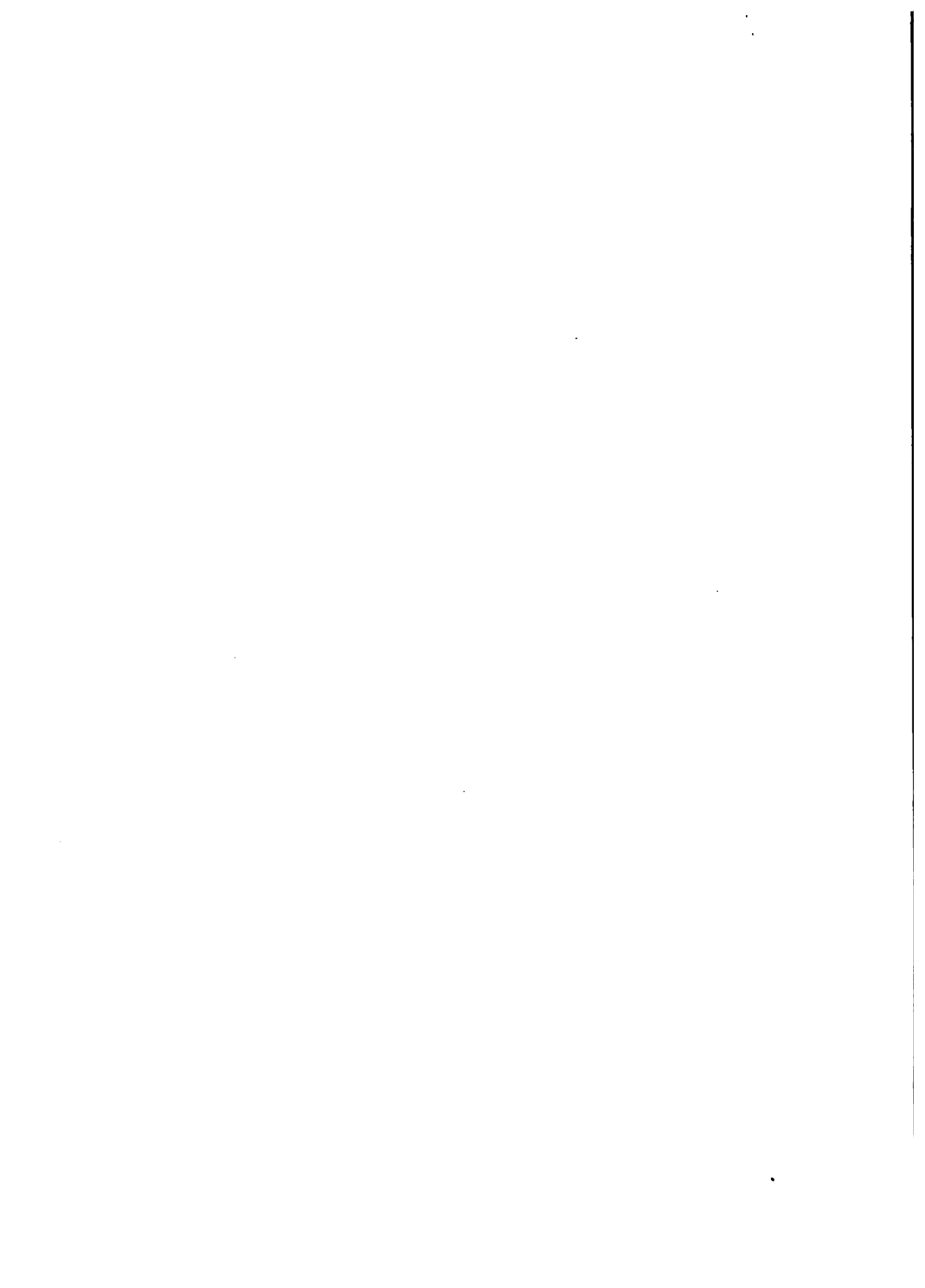
- ...is professional/rigorous;
- ...addresses operational concerns;



- ...evaluation components are built into programs and projects;
- ...effective methods/techniques are available, understood, used skillfully;
- ...findings are channelled into replanning and decision-making.

The services which such a central program evaluation unit might give to evaluators in the organization would include:

- # coordinate evaluation activities and the preparation of annual evaluation plans;
- # advise on, and participate in evaluations;
- # administer evaluation contracts and consultant services;
- # develop improved methodology, guidance, instructional material;
- # provide training in evaluation methodology;
- # provide central evaluation document and reference service.





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Autor

PROGRAM EVALUATION IN
AID

Título

Fecha
Devolución

Nombre del solicitante

17 NOV 1988

H. Caceres

14 MAR 1990

Caceres

