Evaluation practice within state education agencies (SEAs) is reviewed from a management consultant's perspective. The study is based upon a review of literature, discussions with the Northwest Regional Educational Laboratory Research on Evaluation Program, and visits to SEAs in California, Montana, and Washington. The main findings of the study deal with the current practice of evaluation in SEAs, and with management metaphors which throw light upon the evaluation unit considered as a supplier of services within the SEA, and upon the unit's clients who are its customers for such services. The central theme of the study is that the basic paradigm underlying SEA evaluation is in the process of change, moving from the big study, advanced methodology glamour of the late 1960s to an organization-based function supporting SEA management in a variety of ways, alongside other staff specialists. The study suggests that in the long term the SEA evaluation function will condense into two sets of roles, namely, that of evaluation systems analysis, and a consulting role. The study then goes on to identify three possible intervention strategies: (1) clarification and confirmation of the new paradigm; (2) assistance to the supply side of evaluation services; and (3) the building up of informed and understanding demand among evaluation clients. (Author/GK)
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The information presented in this publication does not necessarily reflect the opinions of the Northwest Regional Educational Laboratory and no endorsement should be inferred.
PREFACE.

The Research on Evaluation Program is a Northwest Regional Educational Laboratory project of research, development, testing, and training designed to create new evaluation methodologies for use in education. This document is one of a series of papers and reports produced by program staff, visiting scholars, adjunct scholars, and project collaborators—all members of a cooperative network of colleagues working on the development of new methodologies.

What is the nature of evaluation practice in state departments of education when viewed by a management consultant rather than a traditional educational researcher? What management perspectives might be used to better understand the operation of state department evaluation units? These and related questions are answered in this report by Dr. Jonathan Stanfield, an independent management consultant who conducted a review of the state evaluation units in Washington, California, and Montana. This report provides an illustration of a management consulting review study in evaluation as well as offering insightful observations about the nature of evaluation practice in state departments.

Nick L. Smith, Editor
Paper and Report Series
SUMMARY

This study has reviewed evaluation practice within state education agencies (SEAs) from a management consultant's perspective, as part of the NWREL Research on Evaluation Program's ongoing enquiry into the utilization and effectiveness of educational evaluation.

The study is based upon a review of literature, discussions with the Program, and visits to SEAs in California, Montana and Washington.

The main findings of the study deal with the current practice of evaluation in SEAs, and with management metaphors which throw light upon the evaluation unit considered as a supplier of services within the SEA, and upon the unit's clients who are its customers for such services. Evaluation is not a homogeneous function, but in actual practice embraces at least four separate strands of activity, namely, research studies, computerized information systems, testing, and expert assistance.

The central theme of the study is that the basic paradigm underlying SEA evaluation is in the process of change, moving from the big study, advanced methodology glamor of the late 1960s to an organization-based function supporting SEA management in a variety of ways, alongside other staff specialists, e.g., in budget and finance. From this it is possible to show why some of the current issues raised by the evaluation community have such a frustrating quality. These include the lack of
The impact of evaluation on policy, the failure of expectations as to what evaluation can deliver, and the inapplicability of prescriptive methodologies originating in académie.

The study suggests that in the long term the SEA evaluation function will condense into two sets of roles, namely, that of evaluation systems analysis and a consulting role. This concept of an evaluation systems analyst may be compared to other applications systems analysts in data processing, e.g., financial, retail, engineering systems analysts. As in all jobs there will be ranges of seniority and emphasis. Some will work closely with computers, and others with the design of data collection schemes for specific evaluations. Some will be entry level positions, and others will be senior technical staff. Because of their organizational context, the rate and extent of such changes depend greatly upon the management style of the host SEA.

The study then goes on to identify three possible Program intervention strategies: one dealing with clarification and confirmation of the new paradigm underlying SEA evaluation, one which seeks to assist the supply side of evaluation services, and one which is addressed to the building up of informed and understanding demand among evaluation clients. Recommendations are given for Program activities in each of these categories.
1. INTRODUCTION

This is the final report on the study, Management Review of Evaluation Practice, carried out by the consultant for the Northwest Regional Educational Laboratory (NWREL), under the direction of Dr Nick Smith, Director, Research on Evaluation Program.

The study reviews evaluation practice within state education agencies (SEAs) from a management consultant's perspective. Accordingly, this report is written primarily as a consulting report to a client (the Program), rather than as a research paper addressed to an audience of scientific peers.

The study is related to two areas of recent Program activity. The first is an enquiry into SEA evaluation practice, which seeks to document what SEA evaluators really do and the nature of the settings in which they work. Thus, Smith (1980) concludes by suggesting that more attention should be paid to understanding how evaluation functions within organizational and social contexts rather than to questions of causal modeling and experimental design. The second area of Program activity is that concerned with the metaphor of the series of papers, in which potential new approaches to evaluation are explored as metaphors derived from practices in other fields, e.g., operations research, investigative journalism.

Originally, the study was intended to identify a range of candidate metaphors from the field of management, interpreted broadly, to assess their applicability to SEA evaluation practice, and to derive conclusions
from such application. This proved to be somewhat too simple an approach due to the complex and varied nature of SEA evaluation practice, which renders most metaphors either superficial or of only limited relevance. Thus, the study's results are derived mainly from a direct analysis of SEA evaluation activities, rather than through the indirect route of metaphor.

The study is based upon two major inputs:

- a review of literature on SEA evaluation practice, largely furnished by the Program, as a means to developing an initial approach to the subject; and

- visits to a number of SEA evaluation units, as a means to understanding something of the richness and complexity of what actually happens in practice.

The main text of the report following has three sections, dealing with:

- the primary findings of the study (not all original by any means); and

- discussion of the central theme of the study, some current issues, long term trends, and types of intervention strategy open to the Program; and

- recommendations for further action.
There are a number of appendices where some of the material is treated in more detail.

The consultant would like to thank the Program Director, Dr Nick Smith, for his assistance in the course of the study, not only in matters of overall direction, but also in discussion of the planning, interim and draft final reports.

The views expressed in this report, however, remain those of the consultant, and are not necessarily those of the Program.
2. FINDINGS

Major findings of the study are presented below. They are not all necessarily original, but are presented here for their significance to the study, and to provide some introductory basis for the discussion in the next section. They fall into four groups:

- **Evaluation in an SEA context**, that is, direct findings on the nature of SEA evaluation itself;
- **Management metaphors**, that is, those activities within organizations which appear to be of some relevance to understanding SEA evaluation practice;
- **Management consulting and evaluation**, that is, the relevance of management consulting to evaluation practice; and
- **Issues of concern**, that is, some of the issues that surface repeatedly in the literature and were confirmed by the site visits carried out by the consultant to individual SEAs.

2.1 Evaluation in the SEA Context

Findings on the nature of evaluation in the SEA context, relevant to the present study, are given overleaf. (They are discussed more fully in Appendix A.)
(a) SEA evaluation is an organizational function, carried out by an organizational unit located in an organizational structure. It therefore differs from the view implicit in much of the writing on evaluation, i.e., a single, one time study, organizationally independent.

(b) The SEA host organization is a distinctive kind of organization. It cannot readily be compared to private business for the obvious public-private reasons. Nor does it resemble other government agencies closely due to the open, political nature of its activities, and the atypical emphasis upon outcomes that other agencies do not share. It is this emphasis upon outcomes that gives one of the primary justifications for evaluation in SEAs, as presently conceived.

(c) SEA evaluation is new. It dates, in its present form, from the 1965 Elementary and Secondary Education Act, which mandated evaluation for the new federally funded compensatory programs.

(d) SEA evaluation is a diverse activity, varying in title/scope, size of unit, organizational location, and practice with regard to contracting work out or carrying it out inhouse.

(e) SEA evaluation is not a single homogeneous activity. Four major types of activity are practised under the general heading of evaluation (although only the first of these may be regarded as evaluation by the purist).
ad hoc, one of a kind research analyses of issues and programs, either for retrospective program assessment or for prospective policy formation;

information systems development and operation, containing data on schools, their operations, students, their performance, etc.;

testing, or, more generally, routine obtaining of information on a population of interest through some instrument of enquiry, e.g., a questionnaire; and

expert and technical assistance to LEAs, other SEA staff, legislative committee staff, etc. While this may consume a great deal of staff time in small bits, it is a general function of staff specialist groups in all organizations and is not specific to evaluation.

(f) SEA evaluation units are not the only units in SEAs that carry out evaluations. Some programs carry out their own, with or without the help of the evaluation unit.

(g) SEAs include other units whose work relates closely to, needs to be coordinated with, or overlaps, that of the evaluation unit. These include units with such names as management information center, financial audit, policy and planning, etc.
2.2 Management Metaphors

There are two sets of management metaphors of potential relevance to SEA evaluation. The first relates to the SEA evaluation unit's activities themselves - the unit plays the role of a supplier of services. The second relates to the SEA itself and the unit's clients, which play the role of customers for the unit's services. We shall call these supply metaphors and demand metaphors respectively. (They are discussed more fully in Appendix B.)

The Program's metaphor series of papers has identified a large number of potential supply metaphors. However, it is important to extend consideration to demand metaphors in order to do justice to the fact that evaluation is neither self-sufficient nor an end in itself, but increasingly shaped by the character of demand in its immediate environment.

2.2.1 Supply metaphors

One of the difficulties of identifying metaphors for SEA evaluation is that it encompasses a number of distinct activities, as already described. Since a single metaphor is therefore unsatisfactory, the consultant has sought metaphor(s) for each of the component activities. Although all four activities are represented below for completeness, metaphors for the last two turn out to be somewhat trivial. As can be seen, to distinguish metaphors from the activities themselves, different names are used. Mostly the metaphors view evaluation as an activity of staff.
specialists, not as an activity within the management mainstream of the organization, that is, of the SEA.

(a1) **Operations Research/Management Science (OR/MS).**
This is concerned with ad hoc analyses to support management decision making, based upon appropriate theoretical frameworks. At the technique level it is usually based upon mathematical, financial and physical science models, rather than upon behavioral science, but from a management point of view this is not an important distinction.

(a2) **Marketing/Market Research.** A second metaphor for the research analyses element of evaluation is marketing and market research, which are traditional business functions. Recently they have been seen as increasingly relevant to government operations. In the present case, for example, they deal with needs assessment, market segments and segmentation, the success of products and services as consumed by customers, in fact, the whole machinery of market feedback. This is a major part of what evaluation is all about. They are also much more concerned with human behavior than OR/MS.

(b) **Data Processing/Management Information Systems (DP/MIS).** This is concerned with the development and operation of information systems to support management on a planned or routine basis, both through on-demand enquiry as well as scheduled reports, and may include a variety of analytical tools.
(c) **Surveys.** This is concerned with the periodic survey of a population of interest, e.g., as in market research or public opinion polling.

(d) **Consulting.** This may be internal or external consulting, and extend from a casual telephone enquiry to a mini project.

2.2.2 **Demand metaphors**

The two main metaphors here have to do with the varieties of managerial decision making on the one hand, and the necessity of information feedback from the field on the other. These are, of course, related, but the metaphors and their associated literatures have different emphases, and draw attention to different features of the SEA evaluation environment.

(a) **Decision making categories.** For many years the management community has categorized decision making into three categories, concerned with:

- operational control;
- management control; and
- strategic planning.

The distinction between these categories is sometimes blurred, and associated roles and responsibilities may overlap. A useful indicator of the level of decision making is the relation to
the budget. Management control is concerned with setting and meeting annual goals and budgets, operational control is concerned with the actual tasks that the budgets fund, and strategic planning is concerned with coherent views of the future extending over several budgetary periods. These categories have been used mostly in business settings. In government, strategic planning can often be equated with broad policy formation.

The information required for each category is different, and consequently different means of supporting each category have arisen. In the present case, operational control is mostly to be found at the district and school level. Evaluation will support each type of decision making differently.

(b) Feedback control. Feedback control systems are models for a wide variety of biological and social processes, as well as underlying the industry of engineering control from thermostats to missile guidance. One of man's distinctive attributes is his ability to learn from the outcomes of his actions. If he cannot observe these outcomes, because of extraneous factors, or if the rates of change in the environment occur faster than he can detect, then feedback is impaired, and his activities are less likely to be reliably effective.

The same is true for SEAs. If they cannot track what is happening in the field in an accurate and timely manner, then their ability to direct the state educational enterprise is seriously impaired.
This metaphor is closely related to the preceding one, but has an emphasis upon information, speed of response, and noise, that is particularly appropriate to the function of evaluation in an SEA.

2.3 Management Consulting and Evaluation

One of the Program's interests is the extent to which management consulting itself might be a metaphor for evaluation. As identified earlier, there is clearly a part of SEA evaluation practice that is a consulting activity. It therefore shares with management consulting a common concern with what might be called consulting hygiene, that is, good client relationships, timely reporting, etc. The consulting activities of NWREL also share this concern.

In the view of the consultant, the consulting component of SEA evaluation is mostly a form of technical consulting rather than of management consulting. This is mainly due to the fact that evaluators are not usually asked questions for which the management consulting approach is the most appropriate. Technical consulting is narrower, more focused, concerned with the supply side, and "how to" questions. Management consulting is broader, concerned with demand and often with "what for" questions. Although there can be a degree of overlap between the two, nevertheless, the two types of consulting acquire different styles, attract different staff, serve clients differently, and generally operate in different markets. Management consulting is discussed further in Appendix C.
2.4 Issues of Concern

SEA evaluation today is characterized by a number of issues that surface repeatedly, both in the literature, and also in discussions with individual SEAs. These issues are often only touched upon partially, but when all the references are taken together, a picture emerges of real issues that need to be explored, understood, and responded to, if the future of SEA evaluation is to match its early hopes. Three issues are discussed more fully in the next section, namely:

- evaluation does not have the impact on SEA management that its proponents believe it should;

- expectations of what evaluation as a technique can deliver are not met (and this is sometimes true of expectations of the educational process itself); and

- there is some degree of tension between methodologists and practitioners.
3. DISCUSSION

In this section we discuss a number of topics that we believe are important to an understanding of SEA evaluation today and to its future. These include the three issues mentioned at the end of the last section, as well as long term trends in SEA evaluation, and types of intervention strategy open to the Program.

In considering these topics, the consultant has come to hold the view that the dominant paradigm underlying SEA evaluation is in the process of changing significantly. This proposition will be discussed first, since it is so fundamental that it sheds light on most of the other issues, as well as giving an orientation towards the future, and to possible intervention strategies open to the Program.

3.1 SEA Evaluation: A Paradigm in Transition

Much evaluation literature treats evaluation as synonymous with large, one of a kind social research studies, carried out by independent contractors, utilizing advanced methodologies, highly influential, and lasting many months or even several years. This is not characteristic of SEA evaluation.

Let us go back to 1965, and consider both the mission and the methodologies of the new federal programs in compensatory education. On the mission side they were seen as a means of idealistic social change and not just as education, part of the administration's Great Society program. The poor and disadvantaged
would be helped in a demonstrable way. This led to an emphasis on outcomes that other government spending does not share, e.g., roads, health, defense. On the methodology side, Robert McNamara was introducing PPBS, and the climate favored a methodological rationalism. The climate has since changed. Thus evaluation acquired early on two set beliefs: compensatory education will really change outcomes, and this change in outcomes can be shown by an appropriate methodology.

The first evaluations were large, one of a kind studies, performed by independent contractors, from academe as well as business, who considered themselves major contributors to policy through their research - they were the peers of the policymakers.

SEA evaluation, influenced by the mandatory requirements of programs such as Title I, tended to form itself in the mold of such early federal activity. (Of course, some SEAs were too small to do very much in this direction.) However, the realities of SEA evaluation are mostly quite different, in terms of organizational context, size and skills available, timescales, funding level, and so on. The SEA evaluation unit, in fact, plays a SEA management support role, and this role will develop in different ways depending upon the host SEA's legislative context, size, leadership, organization, and allocation of responsibility between the variety of specialist staff units that serve its management, including evaluation.

The paradigm of a field of activity is the most basic underlying concept of what it is about. It is an
organizing concept, which brings to mind certain characteristic questions and approaches. Indirectly, it directs research and development. It provides a common basis for integrating the efforts of different parties. The paradigm underlying SEA evaluation is in the process of changing from the autonomous conduct of a big study to the operation of a management support unit in an organization.

Out of date paradigms lead to a widespread sense of confusion and frustration in practice. That this is so can be seen by considering some of the current issues of the evaluation community, which are discussed below. However, it should be noted that updating the paradigm will not by itself solve all of the problems facing evaluation in SEAs. There will remain difficult tasks, except that they can now be approached directly and pragmatically, without the confusing influence of an out of date paradigm.

3.2 Issues in Evaluation

We now discuss three mainstream issues of the SEA evaluation community in the light of the above.

(a) Impact. There is no a priori reason why evaluations should have the major, much less the determining, impact on policymakers that the literature so often implies. This notion arises out of the original paradigm underlying SEA evaluation, in which the social researcher played an influential role in the development of federal policy towards both programs and evaluations.
Consequently, when writers speak of lack of impact, they are harking back to a golden age of evaluation (which still exists, to some extent, in current major federal evaluations). In the same vein, they imply a degree of autonomy on the part of the evaluator-researcher that is appropriate to that time. Since SEA evaluation is a specialist staff function, such autonomy is not appropriate today in this setting. There can be creative initiative on the part of the unit, but authority and sponsorship to carry out studies, gather data, develop systems, etc., should come from the clients served. This is clear from the OR/MS and DP/MIS metaphors.

Consideration of the type of decision making that evaluation supports sheds further light on the question of impact. Most evaluation impact is assumed to be on policymaking, which corresponds to the broad area of strategic planning in business. This is the area where the inputs range the most widely, may well be qualitative rather than quantitative, approximate rather than exact, pertinent to the future rather than to the past or present, etc. In short, evaluation input is only one of a number of inputs, and may well rank lower than others of a political or financial nature.

The situation is compounded by technical limitations. In many cases, evaluations produce "soft" data which can be successfully challenged, for example, in the adversarial setting of legislative hearings, or even in the courts.
In contrast, routine inputs to program management decision making from a database with which some familiarity has been gained in the past may well produce rapid and immediate action, as, for example, when sales figures drop below some threshold in business.

Impact is also affected by the quality of evaluator-client communication. It appears that although lip service is paid to this, in most cases there is room for considerable improvement. In general, people habitually underestimate the amount of time and effort that must go into communicating (needs, capabilities, results, etc.). Consulting experience brings this home.

(b) **Expectations.** There is frequently a gap between what evaluation promises, or is perceived to promise, and what it can deliver. This, too, can be traced back to the first utopian days of evaluation, when major studies of national significance were commissioned by the federal government (and as some still are). Since then SEA evaluation tends to have been oversold, both by evaluators wishing to maintain their influence, and by clients wishing to get programs funded or legislation passed, and incorporating promises of evaluation without being completely clear that the results promised are in fact deliverable.

With the change of context from the federal to the state arena, a change of timescale has also taken place. State level clients want results fast. This leads to reluctance on the part of evaluators
to reduce client expectations, and there is 
consequently frustration when they are not met.
However, it is likely that certain things just 
cannot be found out in a hurry. Compare, for 
example, dieting or drug research. It may take 
years to prove results and causal links. There 
are inherent limits to what can be achieved and 
how fast. These comprise the current state of 
the art and should be openly acknowledged: nothing 
is gained by pretending that these limits do not 
exist.

Methodologists and practitioners. Evaluation is 
a young discipline and bears all the hallmarks of 
this condition. Typically there is an incomplete 
separation of theory and practice, as, for example, 
also occurred in information science, artificial 
intelligence and machine translation. In all of 
these, utopian claims were made for the theories 
by academics, and their immediate prescriptive 
application was urged. This immediate application 
was a failure. Recrimination and pessimism 
followed.

Some years later the situation has changed. 
Academics pursue theoretical questions in one 
reward setting. Practitioners pursue practical 
questions in another. Both represent cumulative 
knowledge bases, linked by examples of problems 
flowing from practice to academe, and by results 
from theory flowing in the opposite direction.

In the consultant's view, evaluation is just 
coming to this point of separation and there is
understandably some reluctance on the part of the people involved to lose touch with "the other side". However, it will probably be better for all concerned when the two groups have distinct identities and a degree of mutual respect that sometimes appears to be lacking at the present. Such a separation represents both a responsibility and an opportunity for SEA evaluators to develop a body of professional expertise appropriate to their setting.

3.3 Trends in SEA Evaluation

To predict the future of SEA evaluation is highly speculative, but from the perspective developed in this study possible directions of development can be suggested.

The role of evaluation in supporting SEA long range, or strategic, planning will decline since this is likely to remain a permanently underdeveloped client area. SEAs suffer such abrupt changes of social priority and funding levels that any strategic posture can be obsoleted almost overnight, and consequently SEA management tends to be pragmatic in approach, not often given to planning beyond the next budget.

Evaluation will therefore lose one of its earlier claims to glamor. As the new paradigm becomes more accepted, it will become clear that evaluation is one of a number of support functions available to SEA management. Evaluation will probably remain the internal SEA authority on field data collection.
This role in understanding and designing feedback systems represents an important contribution to SEA management that is not presently duplicated by other SEA staff units, and consequently may represent a stable long term role for the evaluation unit.

Costs and response time will cause the reduction of major research studies to a minimum, except for those needed by existing or proposed categorical programs. With the advent of block grants there will probably be less of these.

Costs and response time will also favor the growth of the DP/MIS component of evaluation activity at the expense of the research study component. This mirrors the way in which DP/MIS has come to dominate OR/MS in organizational influence and investment. The growth of the DP/MIS component may initially be masked by its greater efficiency. This irony comes about because although it may be doing more and more, once systems are set up and running, costs are small, and even fall along with falling hardware costs. A secondary effect of the growth of operational systems, however, is "maintenance drag" which affects both software and procedures, and which further reduces resources for major discretionary studies.

The actual organizational role of evaluation will depend upon individual SEA management. Some units will remain independent, others be absorbed by program management, others merged into an expanded DP operation, and yet others take over the department's DP activities.
While differences will always remain, not least because of size, the consultant believes that evaluation activities will eventually condense into two clusters: an evaluation systems analyst role working closely with integrated database systems (sometimes engaging in major studies or data collection design projects), and a consulting role, both internally and for LEAs and legislative clients.

To expand upon the first of these roles, an evaluation systems analyst may be compared to other applications systems analysts in data processing, e.g., financial, retail, engineering systems analysts. The results of their work is to cause a computer system to support some real world activity. They know enough about the activity itself to be able to think in terms of the system's impact on it, and enough about computing to understand how to structure the data processing requirements for effective implementation. They are concerned with what information goes into the system, where it comes from, what databases are maintained, and what reporting or enquiry facilities are needed.

As in all jobs, there will be a range of seniority and emphasis. Some will work closely with computers, others with the design of data collection schemes for specific evaluations. Some will be entry level positions, and others will be senior technical staff.

Staffing will reflect the growing maturity of the field. First generation staff, the staff of the first ten years, typically have a variety of backgrounds. Second generation staff will have college backgrounds in evaluation. However, because of the likelihood of
a growing separation between academia and practice; college trained evaluators may take some time to settle into the practitioners' world.

A more specific problem with staffing is related to the fact that evaluation has the four components mentioned above. The personal skills and temperament required for each are different, ranging from precision and methodological sophistication in the case of research analyses, to the more pragmatic, results-oriented approach of expert assistance. In some cases, this may lead to tension between the quest for technical excellence and the desire to provide effective help promptly. In large SEAs, this may be alleviated by the fact that staff numbers will permit some degree of specialization. In small SEAs, however, a degree of versatility will be required. If the trends outlined above do take place, then these considerations will be less relevant, since the skills and temperament required for systems analysis and consulting are more similar.

3.4 Intervention by the Program

In the light of the above, the question arises as to what the Program can do to bring about constructive developments in the SEA evaluation field. There are at least three different types of strategy, and each leads to a number of recommendations in the next section.

(a) Clarification. Work to clarify the picture proposed here of a new paradigm underlying SEA
evaluation, i.e., that of a management support function, so that it can provide a realistic basis for cooperative activities by all parties concerned.

(b) Supply side help. Work to build up the capability of the evaluation unit to offer services to the SEA, through tools, techniques, meetings, etc.

(c) Demand side help. Work to develop an understanding among SEA clients and top management of the role and value of evaluation in leading and managing an SEA today. This may seem somewhat out of scope, but the concept of demand-pull can be as important in developing services as the more traditional supply-push. The support of the state superintendent of education will do more for the role of evaluation in an SEA than the latest techniques.
4. RECOMMENDATIONS

Recommendations to the Program arising from the study are given below, divided into three groups, reflecting the different intervention strategies outlined at the end of the last section.

4.1 Clarification

(a) Clarify and validate the proposition that the basic paradigm underlying SEA evaluation is changing, along the lines outlined above, and work towards its acceptance by the various parties involved.

(b) Related to this, develop a model of SEA management and function, differentiated into, say, three size groups. This would include policy and program development, decision making, legislative and executive relations, budget preparation, and key information flows. While reasonably comprehensive in general, the model would focus on developing a representation of the role of evaluation in SEA affairs.

(c) Develop from these a number of detailed case studies reflecting a range of practical evaluation requirements in realistic environments. These could serve as the basis for suggesting research in academe, for sharing approaches between practitioners, and for discussing information needs with clients. They would be more detailed than some of the case studies appearing in the literature.
4.2 Supply Side Help

(a) Extend the work of the Research on Evaluation Program into a more detailed review of the scope of SEA evaluation units and their activities, trends, job descriptions, inter-unit relations, etc.

(b) Develop a taxonomy of evaluation methodologies organized by such attributes as response time, accuracy, cost, respondent burden, etc. Be realistic on any limitations. Identify profile of desired methodologies, i.e., gaps in the taxonomy, and commission research to fill the most important gaps.

(c) Consider a metaphor study to explore the marketing/market research metaphor further, as a resource service for SEA evaluation units, rather than as a means of extending methodology.

(d) Carry out a study to examine the information systems that SEA units are developing with attention to capability, cost, hardware, transferability, etc.

(e) Organize peer group meetings for evaluators on specific topics to share experience. These would be working meetings. A newsletter, occasional journal, or information exchange might also be organized.
4.3** Demand Side Help**

(a) Develop detailed life cycle studies of policy and program development in order to identify the potential role of evaluation, as a means to helping clients perceive this role.

(b) Carry out some kind of market research enquiry into clients’ needs for evaluation, perhaps using the Delphi technique.

(c) Organize peer group meetings for program managers and top policymakers, even state superintendents (different meetings), addressed by prestigious experts on information and management, e.g., Peter Drucker. These would require careful preparation, choice of location, and personal invitation from the Director of NWREL.
APPENDICES

A. Evaluation Practice in SEAs
B. Metaphors from Management
C. Management Consulting
D. SEAs Visited
E. References
A. EVALUATION PRACTICE IN SEAS

This appendix describes evaluation practice in SEAs as the consultant has come to understand it in the course of the study. It is based mainly upon materials provided by NWREL, as well as visits to a number of SEAs, and will probably contain little new to those familiar with the subject.

This description is selective, reflecting the special interests of the study. That descriptions of evaluation are frequently, perhaps inevitably, selective has been amply documented by the metaphor series of reports sponsored by NWREL during the last few years, e.g., Guba (1979), Page (1979). The present study is one more example of how the conceptual framework and analytical tools of the reporter influence what is perceived as significant in the field, and how it is described and structured. (What is sought ideally, of course, is an approach to evaluation which has substantial, and lasting, explanatory power and the ability to suggest and support constructive strategies in the field.

SEAs are organizations intermediate in the public education hierarchy, between the federal government, acting through the US Department of Education, and local districts. They have relationships with each of these levels, as well as with their own state legislatures at state level. These relationships may be summarized as follows:

- federal relationships: SEAs are responsible to the USDE for the funds flowing into the
state for specific programs, e.g., Title I.

- state relationships: SEAs are responsible to the state legislature, often through an intermediary state school board, for managing the state educational enterprise, to the extent that the SEA has an effective leadership and/or control function in the state; and

- local district relationships: SEAs have an oversight role, often on behalf of state and federal funding sources, to see that funds are spent as intended and education is carried out to appropriate standards, as well as a technical assistance role and a policy or guidance role.

None of these relationships, however, are strictly executive, in the sense of one level having the power to control lower levels by direction, but there are implicit sanctions through funding that can be strongly influential. It should be noted that although the federal relationship is highly visible and has influenced evaluation deeply, only a relatively small amount of funds for education actually come from federal sources.

For all practical purposes, evaluation in SEAs in its present form dates from 1965 and the passing of the Elementary and Secondary Education Act (ESEA). This increased significantly the amount of money flowing into states from federal sources for education, and brought with it more than corresponding requirements
for evaluation and accountability or monitoring. On the one hand, the worth of the federal programs had to be established in relation to the national policy arena, and on the other hand, the money had to be shown to be spent appropriately to the intent of the program planners. In the language of evaluation, outcomes and process were both to be evaluated.

It should be noted that 1965 was also the year in which Robert McNamara's Programming, Planning and Budgeting System (PPBS), originally instituted in the Department of Defense, was promoted more widely as an aid to effective public management in general. Evaluation, as originally conceived, and PPBS shared the same utopian rationalist expectations, which many now believe to have been inappropriate. The mood of the times has changed.

Most of the states now have evaluation units or departments with specific staff designated as evaluators. However, there is a great difference between states in such matters as:

- the title of the unit - some combination of research, testing, evaluation, planning, accountability may be used;

- the size of the unit, which may range from 0 to 70+; and

- contracting practice, ranging from mostly inside to mostly outside.

(Caulley and Smith, 1978)

- 30 -38
Perhaps size is the most important factor relating to competence, and it is not surprising that this should vary considerably, from SEAs that are reluctantly forced by the federal requirements to some minimal level of evaluation, to those that pride themselves on greater sophistication than the federal guidelines. This range of skill has been described in Boruch and Cordray (1980, pp3-13,14) under the headings of exemplary, compliance-oriented and emergent SEAs.

Evaluation units perform services for a number of different clients, for a variety of purposes:

- **Federal government**: these evaluations are required by law, and are often specified in some detail. They are intended to provide the federal government with information on the funded programs from a variety of points of view, e.g., descriptive, summative, outcomes/impacts;

- **State legislature**: may direct evaluations to be performed both to inform policy making activities and to monitor new programs, sometimes going direct to SEA evaluation unit staff, without going through the SEA administration;

- **SEA top management**: both in response to external requirements and in response to its own autonomous development of policies and initiatives, requires the support of the evaluation unit in providing specific information and analyses;
SEA program managers: these require evaluation assistance to discharge their program management responsibilities, both within their own offices, and in order to show funding agencies (both state and federal) how the money is spent; and

local districts: these require technical assistance in carrying out local evaluations, both for their own purposes, as well as to meet requirements arising from state or federal funding.

Although these appear to be neat and clean distinctions, visits to actual SEAs showed the consultant that SEAs are complex organizations without strong organizational boundaries, and evaluation units are caught up in a variety of client relationships which can exert extremely taxing pressure on evaluation staff.

Turning to what evaluators actually do, evaluation is sometimes treated as a monolithic, indivisible activity. This is not the case in practice, and a number of distinct activities are performed in providing the services above. This fact makes a single definition of evaluation, such as many writers propose, a misleading goal, since such definitions tend to reflect only a subset of the field of evaluation practice. These activities include:

- research analyses: such as special analyses, enquiries, studies, which entail some study design, data collection, analysis and reporting. These are mainly one of a kind
projects conducted on an ad hoc basis and serving either some high level prospective activity, e.g., policy and planning, or some previously mandated requirement for retrospective evaluation.

- information system activities: such as the development of systems giving information on school operations, test scores, etc., that can be used to generate periodic reports, as well as respond to on-demand questions;

- testing: the actual management of a testing program, from requirements to actual results; and

- expert assistance: for example, advice to local districts on testing, testimony to a legislative committee, inputs to SEA policy development, etc.

As in the case of types of client above, these may be somewhat too exact to be used without some qualification. Nevertheless, they do seem to span the range of activities that evaluation units perform, and are used as indicators of that range in the course of the study. In practice, as might be expected, there is some overlap between them. For example, testing may result in data being fed into an information system, or expert assistance may involve advice on a research analysis for an SEA colleague.
In the evaluation literature a number of issues are currently being discussed. These include:

- whether the dominant realities of evaluation are political or technical. In the former point of view, evaluation is intimately part of the political process and its success will be partly political. In the latter case, methodological and communications improvements will lead to success. These contrasting viewpoints are illustrated by two recent national studies, Rand (Pincus, 1980) representing the political reality and Northwestern University (Boruch and Cordray, 1980) the technical.

- closely related to these is the notion of some methodological grail, which, when discovered, will lead to an educational utopia. This grail is generally assumed to be some form of advanced social science research methodology.

- there is also concern over the impact of evaluation studies on policy and decision makers, a feeling that it is too low, and should be higher. This overlooks the threat of change that serious evaluation poses to program managers and policy makers alike. These people often have enough difficulty getting agreement on political grounds, and do not particularly want to have their investment in compromise and negotiation put at risk by consideration
of new information from retrospective evaluations. These are consequently treated as pro forma reports, and should not be expected to have impact.

In reviewing the literature provided by NWREL the consultant has some additional observations to make:

- **scope of evaluation:** there appears to be some confusion over the scope of evaluation as the term is used in the literature, e.g., does it really include testing or information systems, or are these lesser activities reluctantly carried out by evaluators, whose primary calling is research;

- **autonomy/organizational role:** what can be inferred from the writings of some evaluators, especially in relation to limited impact on policy, is that they conceive themselves as having a certain professional autonomy to do research on their own initiative in order to provide input and guidance (even direction) to policy makers;

- **rates of change:** a factor additional to the political nature of the evaluator's environment is the rapid rate of change in policies, program goals, guidelines, social expectations, etc., not to mention staff and organizational change. These changes occur with a rapidity that approaches and sometimes is faster than the timescale required to carry out rigorous evaluations.
In the limit, this timescale factor can make evaluations almost irrelevant to decisions; and

robustness of evaluations: as these factors are taken into account, together with the presence of a good deal of environmental noise, that is, extraneous factors of various kinds, and the often adversarial nature of policy making discussions, it is a matter of question whether or not it is in fact possible to do robust evaluations today, that is, evaluations whose results cannot be successfully challenged. If this is the case, it should give evaluators some serious concern.
B. METAPHORS FROM MANAGEMENT

The aim of this section is to describe and discuss some metaphors that may prove helpful in understanding present evaluation practice, and in supporting constructive developments in the future. These metaphors relate to evaluation at two levels:

- **supply metaphors**, relating to evaluation as a supplier of services; and
- **demand metaphors**, relating to the SEA and evaluation unit's clients, who play the role of customers for the unit's services.

In considering metaphors from management, the very real question of differences between business and government arises. One treatment of management that tries to provide a single perspective for viewing these two contexts is Buchele (1977). This is also of interest because of his strong advocacy of systems management, with its emphasis on feedback and information, which is quite relevant to the SEA context. However, SEA policy making is quite unlike business strategic planning, due to the rapid change possible in funding and goals imposed by external forces, e.g., the state legislature.

Two readable writers on the systems approach are Churchman (1968), who gives a balanced treatment of the systems approach that is aware of the social complexity of the real world, and Boguslaw (1965), who criticizes some of the utopian tendencies of the early systems analysis movement.
B.1 Supply metaphors

As remarked in the preceding section, evaluation is not a monolithic activity, but has a number of distinct elements in practice (even if "pure" evaluation is only concerned with the first), namely:

- research analyses;
- information systems;
- testing; and
- expert or technical assistance, which can be associated with any of these.

B.1.1 Metaphors for research analyses

Research analyses are carried out by specialist units of various kinds within organizations. These include a whole family of evaluation methodologies (Swanson, 1975), some of which can be carried out externally, e.g., by a consultant for a client. In fact, a number of these are the kinds of analyses carried out by internal consulting units in organizations, e.g., operations research, management audit, while others are associated with budgeting activities, e.g., cost-benefit analysis and programming, planning and budgeting (PPBS), and yet others with product optimizing activities, e.g., value analysis/engineering. Of these, operations research has already been treated in the metaphor series of reports (Page, 1979), and value analysis/engineering is reminiscent of the
special thrust of formative evaluation.

Research analysts are also employed by public organizations in a variety of other fields, e.g., budget analysis, policy analysis. Another example of a research analyst is the library or information analyst. Market research analysts may conduct original research analyses or routine surveys. Investigative journalists also function in a similar way without the organizational background, see, for example, the metaphor series of reports (Guba, 1979). These research analysts are characterized by specialized training and skills, theirs is technical work, not managerial or administrative. They carry out ad hoc studies rather than routine activities, and are concerned with questions of methodology.

The most suggestive metaphors are those of operations research/management science (OR/MS) and marketing/market research. These are discussed at greater length below.

(a) Discussion of the OR/MS metaphor. OR/MS, as well as more general forms of consulting, have special requirements in performing services for management. These include the negotiation of workable specifications for tasks, good communications (both in mutually consistent views of what is being asked for by management as well as in clear, timely reporting), and mutual education. Management should be kept abreast of the kinds of realistic methodological capabilities that OR/MS has to deliver results with, and OR/MS should understand what the organization's goals are and how they
are being pursued. When it commits resources to tasks, OR/MS is responsive to management's sponsoring authorization. OR/MS staff should not indulge in private projects, nor believe that their technical expertise in some way makes them superior to general management. Nevertheless, an explicit awareness of this support service role need not rob OR/MS staff of high professional aspirations and conduct.

From what the consultant has been able to learn of evaluation, it seems that good evaluation should share many of the characteristics of good OR/MS practice in the area of dealing with clients. In general, seeking good communication with clients seems to be acknowledged as a goal, although one that is not always achieved in practice. However, there is some (implicit) reference in the literature to the professional autonomy of the evaluator in initiating studies, which violates the essential support role. It is not surprising that such studies lack impact.

It takes time, both staff time and elapsed time, to carry out analyses. If requirements or activities are changing rapidly, then long running projects cannot be undertaken. If the environment is noisy, that is, there are many extraneous factors, then methodologies that rely upon exact data will not work. The OR/MS professional responds to limitations inherent in the context of the study by selecting an economic and appropriate methodology capable of giving results on time. If none appear to be
available, he advises management, but does not necessarily expect the organization to stop functioning until one is developed, or for long enough for one to be applied.

In some evaluation literature, in contrast, there appears to be the assumption that methodology comes first, and that policymakers should only propose programs that existing methodology can analyse. This is not a position that SEA evaluators can afford, even if appropriate to academe. On the other hand, there is some truth to this position, a variant of "do not promise what you cannot deliver". In the case of the SEA program manager preparing his budget, the caution is "do not promise what your evaluation unit cannot document".

In the same direction, a mature field of applied professional skills, such as OR/MS, knows that the gulf slowly widens between academe and the real world. The academic view of the subject is pure, exact, permitting sophisticated methodologies in simplified and abstracted settings. The real world is pragmatic, oriented towards useful results rather than theoretical purity, and constrained by time and cost. In the same way, professional evaluators do not do the same kind of work as academic evaluators, and should not regard the writings of the latter as prescriptive. On the other hand, the latter should not feel slighted by this, since each has their own legitimate field of endeavor. Ideally, feelings of mutual respect should obtain between academics and practitioners, but, from experience in other fields, this is easier said than realised.
In contrast to OR/MS, marketing functions are more closely integrated into an organization's mainstream and central planning. Marketing staff work closely with production and finance to assure that the right amount of the right products are produced at the right time and the right cost. They are concerned with the consumption of existing services as well as planning for new ones through needs assessment. They carry out comparative studies to find out ways of improving products and services. Their situation differs from evaluation, however, in the existence of revenue in the business environment as a concrete measure of worth.

The concept of market segmentation seems a key one for evaluators and educators generally. How does one decide to split up student populations into distinct groups to be served by different programs? How does program effectiveness depend upon the number of segments?

Looking at the central role of marketing, evaluators may be able to learn from the way in which marketing inputs are widely used in organizational decision making, and how they are able to deliver effective inputs from the same messy environment, within the disciplined schedule of the organizational planning cycle.
B.1.2 Metaphors for information systems

Data processing and management information systems (DP/MIS) are now integrally part of any modern organization. DP/MIS is, like educational evaluation, a relatively young activity, with first practical applications of computers dating from the mid 1950s, and the MIS movement from the mid 1960s. MIS is characterized by the ability to develop, maintain and exploit a database of information relevant to the organization's activities and responsibilities. Over the years the emphasis in DP has moved away from ad hoc projects with short life to the systematic development of long running applications, based upon a growing database of machine readable information.

Mathis (1976), Rasp (1980) and Cronin (1980) all describe how evaluators deploy such systems, within their own organizational contexts.

DP capacity planning is part of any serious planning at the organizational level, since it is now clear to all concerned that all applications take machine and staff resources, and future applications must be planned for. Of course, if the organization's requirements change faster than the typical applications development cycle, then DP can no longer give current support to the organization and there will be a degree of waste in the applications that become obsolete before the investment in their development can be recovered.

DP/MIS departments have some role in educating their organization as to what the current technology can
achieve, i.e., what is possible. However, they do not indulge in independent research (except in the very largest and then budgeted in advance), but develop specific applications for specific clients after careful cost-justification.

Because DP/MIS is a new organizational function, there is an awareness that there is a degree of development associated with it as a field, as well as within any particular organization. This has been described by a stage model (Strassman, 1976) in which four distinct stages are identified:

- **initiation**, characterized by interest and excitement in the novelty of DP;

- **expansion**, characterized by demonstration of applications in a variety of organizational settings;

- **control**, characterized by a desire to manage a variety of DP projects more efficiently, a narrow, bottom-line approach; and

- **maturity**, characterized by the management of DP as an effective contributor to the organization's purposes, a key resource component for long range planning, and a broader bottom-line approach.

The longer DP/MIS has been active in an organization, the greater will be the volume of applications software and databases. In turn, the maintenance requirements will rise, competing for scarce DP/MIS staff time that
can be applied to new developments. Thus, long term DP/MIS activities are accompanied by long term maintenance "drag", a phenomenon that is receiving considerable attention in the computing world.

More recently, as an outgrowth from the MIS movement, there has been the desire to develop better aids to decision-making than MIS typically provide. This effort is known by the name "decision support systems", and is aimed at taking what is known in advance about the structure of the decision and developing computer models working with relevant databases to provide a more intimate and powerful support than is possible with a general purpose database and an enquiry language. This represents an interesting move to narrow the gap between the ad hoc and the routine information system, and clearly may represent an idea of relevance to evaluation. Decision support systems are well described by McCosh and Scott-Morton (1978).

Discussion of the DP/MIS metaphor. DP/MIS is only a little older than SEA evaluation. Its role within organizations during this time has changed a great deal, and this change has been described by the stage model above. It seems likely that SEA evaluation, at least that element that is concerned with information systems, will pass through some similar progression of stages. There is an inherent, experience-based learning curve, compounded of both organizational and technical factors, which probably cannot be speeded up. This appreciation should make us more patient when considering the effectiveness of evaluation within SEAs. Time will bring increased maturity. Something of this may be already seen in the evolution
of the scope of evaluation units in some SEAs.

A major issue in many organizations has been the relationship between OR/MS and DP/MIS. In the early days, OR/MS tended to have the lead, because they were there first, and had the technical skills to operate the early computers. Progressively, however, DP/MIS has become the dominant service in most organizations. Reasons for this include such things as the highly visible investment in hardware, the desire to use prepared information to answer urgent questions rather than ad hoc studies, and the initial capture of data in machine readable form from the operational environment, rather than having to pay extra for its later entry into the management system.

For reasons such as these, it seems likely to the consultant that the information systems component of the evaluation function will come to dominate the analysis and survey components. This may lead to a forced reappraisal of individuals' career goals and their relative importance to the SEA.

The leadership of the DP/MIS function in organizations is another issue of interest by analogy to evaluation. There is some controversy over whether or not this should be a person of general management orientation, or a technical expert. Technical expertise is increasingly less important. More important is an understanding of the goals of the organization and the ability to deliver services to support management in reaching these goals. This may suggest that the leadership of SEA evaluation units (larger ones, that is, since smaller ones may need all the technical
expertise that they can get, will pass into the hands of general managers, especially in those cases where information systems become dominant as foreseen above. One factor which may work against this move is the fact that the top echelon of management in an SEA is either elected or appointed, and may not have skills of a general management nature adequate to taking over and running an evaluation unit without its own traditional technical leadership.

DP/MIS is also committed to systematic capability or resource planning, integrated with other planning activities of the organization, both in the short and long term. This grows out of the increasingly indispensable role that it plays in organizational effectiveness. It seems likely that some components of SEA evaluation will come to practise similar planning as they become more intimately part of effective SEA operations, and are perceived as such.

B.1.3 Metaphors for testing

A number of different disciplines engage in surveys. These include public opinion polling specialists, and market researchers. These correspond roughly to the testing activity that is often part of evaluation.

These activities are characterized by a degree of routine application of some enquiry tool, e.g., a questionnaire, statistical questions of sampling size, population homogeneity, reliability, confidence limits, and so on. Because of the degree of routine, results may be accorded a significant role in decision
making in advance, since there is prior experience of the form of the results and their past utility.

Discussion of the survey metaphor. The main point that arises from this metaphor is that since surveys are not exciting, state of the art activities in general, but rather routine in nature, a premium will be placed on value for money, i.e., efficiency.

B.1.4 Metaphor for expert assistance

The expert or technical assistance component of SEA evaluation activity is a form of consulting. This can range over a wide variety of subjects and levels of effort. Consulting is therefore a metaphor for expert assistance, but the two are almost synonymous, and so this metaphor does not really extend our understanding of evaluation. It will not be discussed further.

B.2 Demand Metaphors

The two main metaphors here have to do with the variety of managerial decision making on the one hand, and the necessity of information feedback from the field on the other. Although closely related, they have different emphases.
B.2.1 Decision making categories

Anthony (1965) introduced the classic distinction of management decisions as falling into the categories of:

- operational control;
- management control; and
- strategic planning.

Lucas et al (1974) discuss this framework along with related approaches of Simon and Scott Morton. Simon uses the terms intelligence, design, choice to describe decision making at the broadest level, and Scott Morton emphasizes the degree of structure in a decision, speaking of structured, semi-structured and unstructured decisions. The information systems that support each of these classes of decision will be different, and this is reflected in the literature and practice of MIS.

In actual fact, these three decision categories are not absolutely distinct, but tend to form a continuum in practice. Anthony describes a number of information characteristics for each of the categories. These are shown overleaf.

Evaluation, broadly considered, may support each of these types of decision making, but not in the same way. Further, because of the SEA setting, strategic planning is not such a clearly defined activity as it is in business, because of the difficulty of developing and applying coherent strategy in an extremely
## Information requirements for decisions in:

<table>
<thead>
<tr>
<th>Operational control</th>
<th>Management control</th>
<th>Strategic planning</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. very detailed data</td>
<td>moderately detailed data</td>
<td>aggregate data</td>
</tr>
<tr>
<td>2. related to a specific task</td>
<td>related to achievement of organization's</td>
<td>related to establishing broad policies</td>
</tr>
<tr>
<td>3. frequently reported</td>
<td>regularly reported</td>
<td>infrequently reported</td>
</tr>
<tr>
<td>4. historical data</td>
<td>historical and predictive data</td>
<td></td>
</tr>
<tr>
<td>5. internally generated</td>
<td>mostly internally generated</td>
<td>externally generated</td>
</tr>
<tr>
<td>6. very accurate</td>
<td>accurate within decision bounds</td>
<td>accurate in magnitude only</td>
</tr>
<tr>
<td>7. repetitive</td>
<td>exception reporting</td>
<td>unique to problem being considered</td>
</tr>
<tr>
<td>8. often non-financial</td>
<td>mainly financial</td>
<td>often non-financial</td>
</tr>
</tbody>
</table>

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**The Anthony Framework**

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**ERIC**
changeable environment. Additionally, operational control is more likely to be practised at the local district level than in the SEA. Failure to distinguish between these different requirements is likely to lead to confusion.

Kling (1980) and Keen (1981) both treat the organizational context of information systems in a manner that extends Anthony's rather general categories to more realistic political environments, such as are found in SEAs. Research shows, for example, that much human information processing tends to be simple, experiential and non-analytic, yet fairly effective. The information dependencies of SEA management are real, but not so direct or determining as is sometimes suggested.

B.2.2 Feedback Control

A simple abstract model of information and decision making has been proposed by Yovits and Ernst (1968), and discussed in a number of papers since, e.g., Yovits et al (1981a,b). This control systems model is highly abstract, but it does remind us of important features of general systems, including feedback, time constants and noise, all of which are relevant to considering the systems character of an SEA, within which the evaluation unit functions. These features may go some way to explaining some of the inherent limitations on what evaluation is able to achieve in a practical situation. For example, if feedback is not employed, or if it is employed but time constants or noise are unfavorable, then the organization cannot
follow an effective course of action with any confidence.

Another notion presented by this model is that of a transducer, a means of converting information from one medium into another. In a sense, evaluation acts as a transducer, or sensor, in extracting information in useful structure from the unstructured social environment in which education actually takes place.
C. MANAGEMENT CONSULTING

One of the aims of the Program in sponsoring the present study is to use it as an example of a study carried out from a management consulting perspective. This is in addition to the substantive results of the study. Therefore it seems useful in this appendix to give a brief description of management consulting, together with some sources for further reading. This may be of interest both to NWREL, which does a significant amount of consulting itself, as well as to evaluators, who, as we have seen, also play a consulting role in their own environment.

Generally, management consulting is concerned with specific assistance given to an organization by an outside consultant and characterized by extensive on-site activity on the part of the consultant, although the term is often used more broadly. One definition, for example, of classic management consulting reads:

"The service provided by an independent and qualified person or persons in identifying and investigating problems concerned with policy, organization, procedures and methods; recommending appropriate action and helping to implement these recommendations."

Reasons for employing a consultant include: their special skills, the need for intensive professional help on a temporary basis, or the need for an intelligent and impartial outside viewpoint.
The present study, therefore, is not a typical management review, since it is indirect, based in part upon literature, with visits to SEAs for field input and checking of hypotheses. The study has been sponsored by NWREL, but is concerned with SEAs, who do not work for NWREL. This naturally limits their participation and interest in the study. If the SEAs themselves had commissioned the study, at a senior level, then more time would have been spent with them, and the results and recommendations would be directed to them. However, this would not have been the usual form of a multi-client study, which more usually deals with market research, technology assessment, industry profiles, etc.

As consulting has developed, some firms have come to specialize, or work in specialized settings, e.g., business or government, a particular sector such as forestry or education, a particular management function such as marketing or personnel. Larger consulting firms have diversified extensively to include such services as traditional management consulting, technical services in economics or data processing, executive recruitment, training and education, technology research, applied research studies, policy analysis; and so on. In addition, major CPA firms have also diversified into management consulting, as have also other service companies, such as, for example, large computer service firms.

Thus management consulting has a degree of breadth and diversity in practice which is not always represented by works on the subject. Many of the hallmarks of good management consulting practice are shared by
other specialized consulting services. The most important of these is the relationship between client and consultant. This includes the way in which the consulting task is specified or negotiated and the consulting firm (or individual) selected, the expectations on each side, the maintenance and development of the relationship through the period of service, the focus upon mutually agreed results, the timely delivery of agreed products (considered in the widest sense), and so on.

Within the framework established by a client paying real money for a real service, i.e., the client wants certain results or outcomes for his organization, features of management consulting that are distinctive include:

- flexibility of means to achieve ends, i.e., the consultant is pragmatic and may select one of a number of different approaches as appropriate. There is no a priori limitation to a specific technique, as in the case of hiring a specialized consulting service;

- related to this, the consultant may bring in additional technical expertise as required (with the prior agreement of the client), serving as a kind of knowledge broker between such resources and the client;
- the emphasis upon benefits for the client, and with the objectives of the client organization (just what is it really trying to do?), rather than solely at the unit level, i.e., a holistic approach to the client;

- a diagnostic phase of learning, listening, thinking, prior to developing specific approaches to achieving solutions;

- related to this, the awareness that the expressed needs of the client may not be the real needs, and the ability to uncover the latter and work towards them within the framework of trust already established;

- a desire to produce the maximal beneficial change for the client, which leads to the advocacy of recommendations that are realistic and achievable rather than idealized and unachievable;

- the communication of results through reports, discussion, presentation, with simplicity, clarity, and emphasis upon key elements, with the sole criterion: is it clear to the client;

- a framework which explicitly includes the period after service, the client's world downstream of the final report, when the changes recommended are likely to come about and have their effects; and
- a willingness to continue service into the implementation period should the client wish.

Although these are some of the features that characterize the central practice of management consulting, i.e., advising on, or working with a client to produce beneficial change, most can also be identified in the other types of services that management consulting firms undertake for clients, such as training or applied research.

Despite the importance of management consulting in supporting the practice of business and government, and often the leading edge of these, it does not have a correspondingly high level of literature. Much of this is due to the confidential nature of consulting assignments, so that they do not contribute to the open literature. On the other hand, part may also be due to the fact that academic faculty are often in competition as consultants in the outside world, and are somewhat scornful of the pragmatic and eclectic approaches employed in the real world. Also, the client-centered approach of the professional consultant is at variance with the theoretical approach of the faculty member, whose primary allegiance is often, through necessity, to the advancement of knowledge through publication, rather than to client well-being.

Having said this, some useful sources include:

- Fuchs, Jerome H.  *Making the Most of Management Consulting Services*, New York, AMACOM (Division of American Management Associations), 1975.


Trade associations and professional societies in the US include:

- Association of Consulting Management Engineers, Inc. (ACME)

- Association of Management Consultants

- Institute of Management Consultants

- Society of Professional Management Consultants, Inc.
D. SEAS VISITED

Visits were carried out to three SEAs, coordinated by the directors of the evaluation units:

- California
- Montana
- Washington

Dr Alex Law
Dr William Connett
Dr Alfred Rasp, Jr

The consultant is grateful to these directors and their SEA colleagues for making their time so generously available for interview and discussion.
E. REFERENCES


Yovits, M. C., and Ernst, R. L. "Generalized Information Systems: Some Consequences for Information Transfer", Columbus, OH, Department of Computer Science, Ohio State University, 1968.
