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ABSTFACT

Shedted on the basis of their general acceptance and their relatively unique approach to the field: (1) State, "Countenance of Evaluation": (2) Stufflebeam, "Decision Centered Evaluation (CIPP)": (3) Provus, "Discrepancy Evaluation": (4) Scriven, "Goal Free Evaluation": (5) Scriven, "Formative and Summative Evaluation": (6) Glass, "Trade-Off and Comparative Cost Approach": (7) Hunter and Schooley, "The Syndrqistic Evaluation Strategy": (8) Foster, "The Karlsruhe Evaluation Strategy": (9) Cremel, "The Cremel Evaluation Strategy": and (10) Stufflebeam/Scriven/Guba, "Meta-Evaluation, or the Evaluation of Evaluations." Educational evaluators are advised to systematically pick and choose among the elements composing the various evaluation strategies in order to find the combination of elements appropriate for a given evaluative need. A taxonomy of the strategies discussed is included, as well as a list of references. (JEG)

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A DESIGN TAXONOMY UTILIZING

TEN MAJOR EVALUATION STRATEGIES

December 27, 1978

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ABSTRACT

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When analyzing evaluation strategies, one must systematically pick and choose among the elements composing the various approaches. While completing this task, it is important to keep in mind that the purpose of an evaluation strategy is to aid in evaluative decision making. By utilizing a taxonomy approach, it is possible to analyze and compare various strategies in efforts to pick the elements needed to satisfy a given evaluative need.

2

INTRODUCTION

We all have our problems. So it is with educational evaluators.

War, lering the streets of academia in search of an identity, educational evaluators are caught in a conflict arising from a sense of not belonging.

Whether due to fear, frustration, or just a general lack of understanding, evaluation has never, until just recently, been given more than cursory acceptance.

Stufflebeam (1971) reported, "Avoidance of evaluation is evidenced even within the United States.Office of Education (USOE) which, historically, has provided neither budget or staff sufficient to evaluate its own programs, despite a great deal of talk about the desirability of evaluation for the school." [1] As in any field where strict definitions are neither appropriate nor possible, evaluation begs the participant to constantly reassess his options in search of a better way.

The problem arises when one tries to differentiate among these better ways. In the field of evaluating programs for disadvantaged adults alone, the ERIC Clearinghouse on Adult Education lists 58 evaluation models currently in use.

By closely scrutinizing these as well as a plethora of other strategies, one finds a pattern of similarities if not total repetition. In viewing these various evaluative approaches, it becomes apparent that evaluators generally follow one of several basic patterns and then embellish the similarities with a personal touch in efforts to legitimize their "new creation." This approach typifies, in many respects, the expanding field of educational technology in general and instructional development in particular. As in evaluation, instructional developers have settled on a



basic approach, focusing on educational design, development, evaluation, and revisions, prior to massaging additional steps geared to reflect their unique circumstances.

The same generalization holds for evaluation—there is a basic structure that is embellished to meet one's unique needs. The question arises: Is it possible to isolate particular evaluative characteristics and then build, in cookbook fashion, a super-strategy based on the various major evaluative approaches? In essence, that is the purpose of this paper—to analyze the major program evaluation strategies utilized by the current leaders in the field by developing a taxonomy of evaluative strategies.

While delving into this analysis of evaluation strategies, heed a word of caution voiced by W. James Popham, a seasoned evaluation specialist from the University of California at Los Angeles (UCLA); "Although it is sensible for educational evaluators to inform themselves of the nature of educational evaluation models, they should not get too caught up in that enticing but enervating game known as comparative model meshing. Some people take great delight in seeing how Model X differs from Model Q and is ever so slightly like the seventy-ninth stage of Model Z. Instead of engaging in a game of "sames and differents," the educational evaluator should become sufficiently conversant with the available models of evaluation to decide which, if any, to employ. Often a more eclectic approach will be adopted whereby one selectively draws from several available models. those procedures or constructs that appear most helpful." [2]

WIT A TAXONOM?

For the purposes of this paper, "taxonomy" is defined as a systematic attempt at classifying phenomena into categories, either corresponding to real ordering or to arbitrary ordering among the phenomena.

Concerning the development of an evaluation design taxonomy, Worthen (1968) states, "While manageable in theory, such an approach presents the evaluator with a task which is extremely difficult in practice. It requires that the selection of alternatives affects a balance between selection of the most appropriate alternative for each decision situation and the selection of a set of alternatives, which can be integrated into the best over-all design." [3]

In analyzing various evaluation designs, Stufflebeam (1978) developed a logical evaluation design structure that transcends all types of evaluation, whether content, input, process, or product--the components of his own model. [4] The necessary elements are as follows:

- A. Focusing the Evaluation
 - 1. Identify the major level(s) of decision-making to be served e.g., local, state, or national.
 - 2. For each level of decision-making, project the decision situations to be served and describe each one in terms of its locus, focus, timing, and composition of alternatives.
 - 3. Define criteria for each decision situation by specifying variables for measurement and standards for use in the judgment of alternatives.
 - 4. Define policies within which the evaluation must operate.
- B. Collection of Information
 - 1. Specify the source of the information to be collected.
 - 2. Specify the instruments and methods for collecting the needed information.
 - 3. Specify the sampling procedure to be employed.
 - 4. Specify the conditions and schedule for information collection.
- C. Organization of Information
 - 1. Specify a format for the information which is to be collected.
 - 2. Specify a means for coding, organizing, storing, and retrieving information.

Analysis of Information

Specify the analytical procedures to be employed.

Specify a means for coding, organizing, storing, and retriev ing; information.

Reporting of Information

Define the audiences for the evaluation reports:

- Specify means for providing information to the audiences.
- Specify the format for evaluation reports and/or reporting sessions.
- Schedule the reporting of information.

Administration of the Evaluation

Summarize the evaluation schedule

- Define staff and resource requirements and plans for meeting these requirements.
- Specify means for meeting policy requirements for conduct of the evaluation.
- Evaluate the potential of the evaluation design for providing information which is valid, reliable, credible, timely, and pervasive.
- Specify and schedule means for periodic updating of the evaluation design.
- Provide a budget for the total evaluation program.

These criteria along with others developed by the author will be utilized in development of this matrix-based evaluation taxonomy.

TEN EVALUATION STRATEGIES FOR COMPARISON

For the purposes of this taxonomy, the following evaluation strategies were selected on the basis of their major acceptance and their relatively unique approach to this complete field. The individual strategies along with a brief annotation of each are provided below:

STATE--"Countenance of Evaluation"

Evaluation data are either descriptive--intents and observations-or judgmental. In order to evaluate, an educator will gather together certain data. The data are likely to be from several quite different sources, gathered in several quite different ways. Whether the immediate purpose is description or judgment, three bodie's of information

should be tapped. In the evaluation report it can be helpful to distinguish among antecedent, transaction, and outcome data.

An antecedent is any condition existing prior to teaching and learning which may relate to outcomes. The status of a student prior to his lesson, e.g., his aptitude, previous experience, interest, and willingness, may comprise a complex antecedent.

Transactions are the countless encounters of students with teachers, students with student, author with reader, etc. Examples include the presentation of a film, a class discussion, etc.. Transactions are dynamic whereas antecedents and outcomes are relatively static.

Outcomes are the consequences of educating-immediate and long-range, cognitive and conative, personal and community-wide.

Judgmental statements are classified either as general standards of quality or as judgments specific to a given program. Descriptive data are classified as intents and observations. The evaluator can organize his data gathering to conform to the format shown in Figure 1. [5]

	INTENTS -	OBSERVATIONS .	STANDARDS	JUDGMENTS.
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The Stake model is considered to be the most humanistic of any of the major models in current use, placing heavy weight on judgmental data.

2. STUFFLEBEAM: PHI DELTA KAPPA--"Decision-Centered Evaluation (CIPP)"

Evaluation provides information for judging decision alternatives. It can be useful at all stages of decision making--awareness, design, choice, and action. Four levels of evaluation--context, input, process, and product--correspond to four major steps of programming decisions--planning, structuring, implementing, and recycling.

3. - PROVUS - "Discrepancy Evaluation"

Evaluation identifies discrepancies between actual programs and standards for programs so that programs can be improved. Program personnel set standards for activities and results at each programming stage-design, installation, process, and product. Actual performance is compared with the standard and discrepancies or areas for improvement identified. Discrepancy information is used either to change the performance or to change the standard.

4. SCRIVEN -- "Goal Free Evaluation"

Results of programs are judged against the originating need rather than the stated objectives. Cost of producing those results is considered in relation to costs of alternatives. The work of evaluation is viewed as primarily an act of condensation that includes two major stages—compression and credentialling. A mass of data and observations are compressed until judgments as to the value or worth of the program can be made—credentials assigned. [6]

5. SCRIVEN--"Formative and Summative Evaluation"

There are two evaluative stages: formative--the purpose of which is to assist in developing curricula--and summative--the purpose of which is to assess the merit of curricula once they have been developed and are on the market. Scriven states that formative evaluation is an ongoing process providing constant feedback to the producer with summative evaluation being used to assess the merit of the finished product by the consumer.

6. GLASS--"Trade-off and Comparative Cost Approach"

A format for evaluation of materials or educational activities, including: describing the product to be evaluated; evaluating the goals of the product; clarifying the point of entry of the evaluator; determining the kinds of trade-offs involved; comparing costs with costs of alternatives; making an intrinsic (secondary) evaluation; making an outcome (primary) evaluation; forming judgments and recommendations; stipulating circumstances that would modify the conclusions; and evaluating the evaluator.

7. HUNTER AND SCHOOLEY--"The Synergistic Evaluation Strategy"

An educational system can be broken down into four domains: (1) policy, (2) program development, (3) instruction, and (4) feedback. Each domain contains activities which are of a technical and non-technical nature which comprise a complete evaluation strategy. The approach is synergistic in three ways: (1) its activities require the involvement and complete interaction among students, educators, and parents; (2) it requires the interaction between technical and non-technical aspects of evaluation;

and (3) its activities include both goal based evaluation (GBE) and goal free evaluation (GFE). [7]

8. FOSTER -- "The Karlsruhe Evaluation Strategy"

As an offshoot of the Scriven Formative/Summative evaluation system, the basic steps involved are: (1) preplanning, (2) planning and model development, (3) implementation, (4) operation, and (5) dissemination. In contrast to most developmental strategies, evaluation is not listed as the final phase because evaluation is viewed as an ongoing activity. at all stages of program development.

9. CREMEL--"The Cremel Evaluation Strategy"

The Cremel strategy is developed utilizing an X/Y matrix. The X axis is concerned with the following categories: (1) issues, (2) initiation, (3) pilot, (4) field test, and (5) public diffusion. The Y axis is concerned with: (1) desirability/feasibility, (2) management procedural cost, (3) product worth, (4) usability, and (5) generalizability. The evaluator responds to the matrix in terms of: (1) criteria, and (2) audience. This enables those involved in the study to analyze the individual segments of the evaluation as to their instructional worth.

In using the Cremel strategy, the evaluator helps the client to identify the issues to be considered, i.e., "Desirability/Feasibility." The evaluator/client team then identifies the various audiences for each issue (varies from issue to issue) and the criteria needed to satisfy a particular audience in regards to a specific issue. Similar criteria/ audience analysis is conducted for the various stages of pregram evaluation, i.e., initiation, pilot, field testing, public diffusion. (Figure 2)



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what are the most needs of the uni-versity?										
len a high priority issue?			·							
c. Are there products available or in development which might /be adapted to this purpose?									,	
d. What type of product is necessary to fill the need?										
e. Identifi- cation of target pop- ulation.				·						

10. STUFFLEBEAM/SCRIVEN/GUBA--"Meta-Evaluation, or, the Evaluation of Evaluations"

Because of its varied interpretations, a little background information on Meta-Evaluation is in order. The term 'Meta-Evaluation' means "A procedure for describing an evaluation activity and comparing it against a set of ideas concerning what constitutes good evaluation." According to Scriven, this means that meta-evaluation is higher order than standard evaluation and includes evaluations that are secondary, tertiary, etc. [8]

Criteria for judging meta-evaluation have been discussed in the works of Campbell and Stanley [9]; Gephart, Ingle and Reinstad [10]; and Bracht and Glass. [11]

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Peta-Evaluation to serve Accounted litz in eval, work (This is Surmative Peta-Evaluation and usually is conducted by outsiders)	Cattining try coeded information	Survey of evaluation months indicate ratings of chosen evaluates coals intiguis of evil. siali relates to criteria, needs, 5 audience ratings	artings of the alternative eval. designs	e.el. process Animals of thecen the e.el. process & the chosen design	Patients of the continue of reports (visitie of use of use of each, for decision rising & eccountability of the value of each report; [milerolytical arrivats for the revaluation]
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Figure 3

A Feta-Evaluation Francezek

The structuring of meta-evaluation appears in Figure 5. This structure portrays meta-evaluation as a methodology for assessing the merit of proposed and completed evaluation efforts as discussed in the first premise. The framework relates to three dimensions, namely; PURPOSES, OBJECTS, AND STEPS. The contents of the cells of the structure reflect the three criteria of technical adequacy, utility and cost/effectiveness. Meta-evaluation follows the premise that insiders should conduct formative or pro-active meta-evaluation while external agents should conduct summative or retroactive meta-evaluation.

Stufflebeam states that there are two specific purposes of metaevaluation: [12]

- 1. Meta-evaluation should serve decision making and accountability. In order to support decision making in evaluation, it requires and emphasizes the need for formative work in efforts to provide timely recommendations concerning how evaluation studies should be designed and carried out. Formative meta-evaluation is a direct way of insuring that evaluations will produce results that are technically adequate, useful, and cost/effective.
- 2. The second, and possibly outwardly more important, purpose of meta-evaluation is to provide a system of accountability for the evaluator. To facilitate this accountability, meta-evaluation of a summative type is conducted by outside agent to produce an un-biased outside opinion and foster public judgments of the merits of the completed evaluation work. Much of the information required in summative meta-evaluation is potentially available in the formative meta-evaluation.

MATRIX FORMAT

In assessing the various evaluation strategies, several characteristics were deemed necessary to explore. They are:

- A. Type of Evaluation--The context in which the evaluation is conducted.
- B. Definition -- The primary aim of the evaluation.
- C. Purpose--What the results of the evaluation will be used for.
- D. Criteria for Judging Evaluation--The criteria by which the evaluative design and implementation will be judged.
- E. Personnel Required--Staffing implications in relation to a given evaluative strategy, i.e., to successfully meet evaluative criteria certain strategies need more manpower than others. (This is an important budgetary consideration.)



- F. Implications for Design--Specific design constraints encountered when following a given strategy.
- G. Key Emphasis -- How the information gleaned from the evaluation is used.
- II. Role of Evaluator--The evaluator's role in regards to a specific strategy.
- I. Relationship to Objectives--Means by which the objectives are met.
- J. Relationship to Decision Making--How the evaluation strategy serves decision making.
- K. Time to Complete--Approximate time needed to complete a given evaluation. Time varies greatly concerning the size of the program and depth of the evaluation.
- L. Cost-Budgetary requirements in very general terms dependent, once again, on the size of the program and depth of the evaluation.

It is quite obvious that various other characteristics could be plugged into this framework. It is felt, however, that the characteristics listed here will provide the reader with a firm base from which various evaluation strategies can be analyzed.

LIMITING FACTORS

Every taxonomy has inherent drawbacks. While some are quite obvious, others remain hidden for the most part.

In looking over the characteristics considered in the matrix, it is apparent that other aspects of the models could have easily been added to this framework. While additional characteristics would make the taxonomy more comprehensive, they would also tend to make the taxonomy more difficult to digest. Another problem arises from the difficulty of classifying various strategies using somewhat vague terminology such as "cost,"

"purpose," etc. Terminology that is too rigid will tend to misrepresent certain strategies while non-specific terms will fail to give a firm base by which different strategies can be analyzed.

A final factor of concern to the person actually conducting an evaluation is the size of the program being analyzed. One should keep in mind that the size of an evaluative effort, both in terms of budget, personnel requirements, deadlines, etc., will have a great affect on the evaluative strategy or strategies to be utilized.

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7	informal utilizing a himanistic	(1) Context (2) Input (3) Process (4) Product	(1) Design (2) Installation (3) Process (4) Product (5) Cost	lorentive/Summer ive in nature lending more weight to program "side effects" and "unintended results" than goal based evaluation that focuses only on a project's ability to meet established goals	Poncomparative (3) Intrinsic/	Approacy A form of Gorl lessed evaluation that is very out- cone oriented and extremely we'll documented a roughout the entire process	Based on inter- action between technical and non technical aspects of evaluation using both goal based evaluation (CDE) and goalsfree evaluation (GFE) [74] includes formative and summative	A program-wide evaluation system forwarive and	formative Surmative design utilizing far "issue" based matrix to determine alternatives to instructional situations	lorential street to serve division of the religion of the religion of the religion of the religion (learnetize)
NOTITED	Jisiging an educa-	Sefining, obtaining and using informa- tion for decision ⊤aking	Comparing performance against standards with the difference being classified as the discrepancy	Goal-free evaluation is concerned more with actual outcomes vs. Intended outcomes. GFE is instructured in that it gives no real guidence in gathering data. It is left up to the goal-free evaluator to choose, among the thousands of potentially relevant attainment variables and associated measuring devices. GFE does not provide specific guidance in choosing among attem		The goal of an evaluation is to describe program outcomes and to discuss evaluator recommendations. This can only be done with the preliminary establishment of program goals. The result of such an evaluation will, be an analysis of trade-offs in the form of recommendations which retter help a project attain its stated goals.	An educational evaluation strategy designed to create closer interaction between evaluation researchers and curriculum specialists. The model separates an educational system into four domains; il) policy (2) program development (3) instruction (4) feedback	process for attain- ing program comis by formalizing	dependent on cer- tain identified or identifiable situ- ations. By analyz- ing a-situation in terms of (1) issue- (2) criteria and audience, a given program can be analyzed in terms of initiation (development), pilot testing and	
пародина	To describe and judge educational programs based on a formal inquiring process	To provide relevant information to decision makers	To determine thether to improve maintain, or terminate a program	The purpose of CTf is to analyze the actual effects a product or program has, whether or not they were intended [16]	To establish and justify merit or worth of a given project by using evaluation in all phases of program development	To analyze a program in relation to its goals and to explore trade-offs and budget-ury options which will enable a project to meet its primary goals within its budget requirements	The purpose of this strategy is to analyze a school system by breaking it down into the six groups composing the educational system: (1) students (2) instructional staff (3) administrative staff (4) educational specialists (5) family (6) community	To assess the legitimacy of an organization's developmental process through individualized evaluative instrumentation	To analyze pertinent program assues at the start of a project. The efforts to evaluate possible problems and situations before they occur	(1) To serve accountability and decision railing (2) To form a system of accountability for the evaluator
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VII Justion Venomy	STAKE Countenance Strategy	STUFFICEEVAL (PROVIS Discrepancy Evaluation	SCRIVES Gnal Fice	SCRIVEN Formative/Summative	Connective Cost	RINITA and STICOLEY Synergistic Evaluation Strategy	FOSTER _ Karlsmide Strategy	CRINGL Cremel Strategy	forth plantin
NOLIVA	orunic, not nicre-scopic (1) Fauld include lestrictive and judgmental data (3) Should provide imediate relative answers for deci- sion taking	validity (2) External validity (3) Peliability (4) Objectivity (5) Relevance (6) Importance (7) Scope (8) Credibility (9) Timeliness (10) Pervasiweness	tent (2) Assume one-to- tone correspondence of the tween design and resign an	eria for judging he evaluation other than actual esults, where as out evaluation odels test actual esults vs. intend-	(1) Should be predicated on goals (2) Aust indicate worth (3) Should have construct validity (4) Should be a shelistic program evaluation	wast he well ducu- mented with various trade-offs expanded	gistic in that involvement and input are gathered from students, professional educa- tors, and parents	tion instruments focusing on specified program phases, the eval- mater can assess the program's	program? Must cri- term must be met to fill their needs?	servol?
данільця таккоўная	The faser, the better, with one-chaine interaction the ideal, Although formal, it is very responsive to individual need and judgments	ation with one head evaluator and 4 other team mem-, hers covering each of Stufflebeam's components:	members is typical with numbers of evaluators working on a given project ranging up to 10, depending on time constraints	On a given project, two goal free evaluators should work independently, beginning midsay in a point after completion. While this will not guarantee good quality and fair evaluation, it will previde an opportunity to estimate the "ciror term" involved in CFE [17]	Works well with two teamsan internal team con- cerned with form- ative evaluation- and an external team concerned with summarive evaluation	Rest handled as a team effort with members critiquing various trade- offs	Utllizes a team ,of 4 to 7 people	Best handled as a team composed of 4 to 7 evaluators. Each evaluator is assigned a project phase and has the responsibility to develop the instrumentation for assessing the progran's ability to meet the requirement of that phase	After project staff input is utilized and issues agreed upon, a single evaluator could guide the evalua- tion process	fernative pro- active evaluation can be confacted internally and renatore by the retreative eval- uation teat- leader who over- sees the corple- tion of the signature evalua- tion
TOR DESTONS	Tery general struc- ture utilizing two design matrices- me for "Descrip- tiem" and the other for "judg- rents." Fach ratriv is concerned with intecedents, trans- actions, outcomes if axis), and intents, observa- tions (description matrix), and standards, judg- cents (judgment ratrix)	design not applicable (2) Use of systems approach for evaluation studies (3) Directed by administrator	uous evaluation through feedback loops	Instructured to the legree that the in- dividual evaluator selects the vari- ables and relevant measuring devices hased on intuition	(1) Look at many factors (2) He involved to value judgments (3) Require use of scientific investigation (4) Ivaluate from within (formative) and from without (summative)		the six groups should be identifie early as the pro- ject interaction between the re- searchers and cur- riculum developers must be maintained throughout proces- sing of all four domains	that the avaluation team must develop specific instru- ments to assess the quality and worth of an organization!	(1) usability, (2) desimbility, e feasibility, and (3) management/ e-procedural/cost and provided with specific sublead- angs dealing with the particular pro- ject. Issues are	(ornative namer (practive) [1] evaluation (pals, [2] evaluation (designs, [3] evaluation (processes, [4] evaluation (results, them assess in a
яткупан т	Collection of descriptive and judgmental data from various nationes to aid in decision rating	mak ing	Identifying dis- crepancies between standards and per- torizance using a team approach	Evaluators should be concerned with actual program out cores rather than prodetermined goal	lustification of data gathering, in strementation, weightings, and selection of goals lealination strateg combines data on different perform ance-scales into a single rating	alternatives for decision making, purposes	Gathering interactive data on grous selected goals and objectives in an effort to evaluate a program utilizing all parties involved the development a implementation of an educational system	prization's development model in terms of its abili- to systematically attain identified goals in	ipon and estab-	ation using fernative and summative data

VII ustion	STANE contenance Strategy	STUFFLEDEAM CIPP	PROMIS Discrepancy Evaluation	SCRIVEN	SCRIVEN Formative/Summative	France Off and	RANTER and SCHOOLEY Synergistic Baluation Strategy	POSTER Karlsruhe Hodel	CREATE Cremel Stintegy	ORI Meta-Lyplantism
بد	erned with cou-	vides evaluation information to de- cision anking	A team member who did aids program in growment and coursels administration in The team member	rum outcomes, un- noumbered and un- riused by precon- eptions in regards	Responsible for judging the merit of an educational practice for producers (formative) and consumers (summative)	mation on project options to decision unkers as well as provide summative information	To spark intergroup communication, to set up & monitor the 4 domains, to make Sure all relevant groups are represented and to conduct summative evaluation in the feedback stage	The evaluator role is value-free in that the organization's development all process is analyzed and described by the evaluator but not judged	(1) To spearh ad the development of the individual is- sues of a given pro- gram (2) to analyze how/if the issues are adequately ad- dressed in project initiation (devel- opment), pilot test- ing, field testing, and public diffu- sion	realitive (structive evaluation (i.e., all ternative evaluation (i.e., all ternative evaluation) and recommendation is documented and tecome part of the refa-evaluation study.
ALINEALINE OUTCTIVES	gral specifications and priorities. identification of preus of fultures and successes. It is up to the eval- mater to assist in	in context evalua- tion is setting ob- jectives; input evaluation produces ways to reach ob- jectives; product evaluation deter-		io relationship chatsoever	Look at goals and judge their worth. Determine whether they are being met	A direct rolation- ship to goals and objectives in that the entire evalua- tion is based on the assued validity of program goals	ionls & objectives are developed inter- actively by the six groups composing the educational system. In the feel- back domain (*4), attainment of the goals and objectives are measured	with the evaluator's role one of devel- ping instruenta- tion to assess the organization's pro-	program "issues" & addressed in terms of "criteria" in each of the 3 program states: [1] initiation (development) [2] prior testing [3] field testing	throughout the pro- cess, results of which are document a placed in the evaluation report
IIP TO NKING	Descriptive and judgmental data in reports (including recommendations to various audiences). This pants may be hased on either absolute or relative standards	Evaluation provides information for use in decision making	collects informa- tion essential to program improvement & notes discrepan-	in intended results	Evaluation reports (with judgments explicitly for pro- ducers & consumers) used in decision making	Decision makers re- ceive program trade-offs a al- ternative cost ap- proaches which they use to modify the program to better reet its goals	In the feedback do- main (44) summative data is gathered based on accomplish- ments of goals and objectives. All summative material is documented in a final report	A straight forward report is developed by the evaluation team (value free) lescribing the data gathered using the various evaluation instrumentation	The data is gather ed, documented, and lyced and incorporated into a resport to be acted upon by decision makers. Areas to aid in decision making are: [1] desirability/feasi	duses of the contributive and surmating are intered a decreed a decreed action report. The report is then us by decision, rafer
талапанос	tan be varied de- rending on needs. Time is needed to develop trust keel lime varies depend- ing on quantity of recople to be queried & openness of those inter- viewed			Since It is both formative and summitive in mature, it would run the length of the project	Formitive is on- guing during pro- gram development and lasts the length of design & development sum- mative is handled in a field test	Takes quite a bit of time to analyze a given program and develop trade off and cost niternatives	representing the different factions the shorter more	evaluation is on- going-input gather	is formative and summative in nature the completion time is dependent on the duration of the project	C Langeh (the
*C 0 S T	Can be fairly ex- pensive depending on depth and breadth of the evaluation	Relatively inex- pensive if the tear concept is utiliz- ed. The team leader could eversee the 4 less experienced evaluators and oversee developmen of the various evaluation reports	1	Varies depending on those involved. A goal-free evaluation can be adequately accomplished by one evaluation. Some suggest that 2 independent evaluators should work on a project simultaneously altimugh this would double the cost pe	for a minimal cost with summativ completed by an external staff usually costing more	Fairly expensive. It takes a very experienced eval- untor to be able to analyze options and come up with feasible trade- offs and alterna- tive cost ap- proaches	Comparatively inex pensive since all of those involved with the possible exception of the primary evaluator and possibly an assistant or, two are volunteers rep resenting the six primary groups	since new instru- mentation is neede for each phase of a given program	Fairly inexpensiv Roughly 3 to 5 ra days to set up; several more for conitoring purpos and approximately to surmarize fina data and develop a concluding repo	n can and should be fairly corplex and for this reasons relatively costly
E	21		1	man day it would likely still cost less to complete a GFE than many of the other forms of evaluations						22

SYNTHESIST

As stated earlier in this paper, the vast majority of evaluation strategies utilizes similar events in a rather predictable sequence. In analyzing the various strategies discussed in this paper, it is note-worthy that nearly all frameworks utilize elements of existing strategies to come up with "unique" evaluative approaches. For example, most strategies follow a sequence similar to Stufflebeam's Context, Input, Process, Product (CIPP) system for laying out the different evaluative stages. Almost all models include the formative/summative evaluative process credited to Scriven. Although Scriven popularized the term "formative/summative evaluation," the vast majority of present day evaluative strategies before that time utilized some form of program feedback for guidance from project initiation to completion.

Other approaches, such as Stake's "Countenance of Evaluation" system attempt to gather similar data utilizing different methods: such as Stake's humanistic approach to gathering information.

An example of evaluating a given product or program using a unique approach is Scriven's "Goal-Free" evaluation strategy in which goals, the guiding light of most evaluators, are intentionally by-passed in efforts to create an outcome-based, bias-free evaluation.

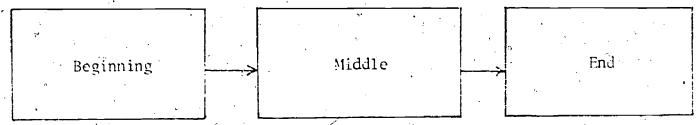
Early in the development of this taxonomy, the need was expressed to find a "super strategy" utilizing the best elements of each evaluative approach. In analyzing the approaches discussed in this paper, it becomes obvious that the development of a "super strategy" for educational evaluation is not a new concept . . .

. . . Each of the strategies discussed in this paper is an attempt at developing the ultimate evaluation tool designed to fill a specific need. The



by the individual evaluator, who, after assessing his evaluation needs, must look at evaluation options currently available and decide whether to utilize an existing one or develop a "super strategy" of his own which transcends previous models.

One needs to remember, however, that evaluation strategies need not be complex to be effective. There is, for example, a particularly simple one developed by Ernest R. House, and reported in—his article: "Confessions of a Responsive Goal-Free Evaluator." Cloaked in the jargon of educational evaluation, the tongue-in-cheek House states, "Below is an evaluation model developed by an Office of Education official and reported in Educational Technology (1963).



Or was it an evaluation model of the Office of Education? In any case, the data will be arrayed into the above scheme." [18]

House's point is well taken. The purpose of an educational evaluation strategy should be to facilitate evaluative decision making. This should be done as efficiently as possible without undue glorification and obfuscating frills. While House's simplistic model overstates the case, the measure of a "good" evaluation strategy is its ability to fill an expressed evaluative need and not to add more jargon to a field approaching the saturation point.

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