This document explicates what is involved in educational performance contracting. Four basic types of contracts can be used to procure goods and services: fixed and performance contracts for resources and fixed and performance contracts for results. The basic considerations in choice of type are risk, relative technologies, management skills between school and contractor, institutional considerations, and other intangibles. In contracting for student achievement, the goals sought are associated with reading, mathematics, and vocational education skills, i.e., those skills that lend themselves to precise specification. The greater the technological and managerial advantage of the prospective contractor over the school, the greater the advantage of a contract for results over a contract for resources. The greater the size of a project, the greater the advantage of a performance contract over a fixed contract. There is a large number of operational programs at the present time, but they are all experimental, and most are narrow in scope. In most of the programs, the contractors are directly involved in the classroom teaching and learning process. The real strength of performance contracting is its versatility--its potentiality for use in a wide variety of contexts. (Author/CK)
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EDUCATIONAL PERFORMANCE CONTRACTING

During the 1969-70 school year, two school districts entered into performance contracts with educational firms; in 1970-71 this number is probably at least one hundred. The exact number cannot be ascertained since new programs are being started throughout the year and many have received little publicity. Because these pilot programs could lead to a rapid and widespread adoption of the strategy, it is important to examine the performance contracting concept and its current applications in education.

Precise definition of performance contracting is a complex matter; however, a rough working definition is that a performance contract is a covenant between a local educational agency (LEA) and a learning system contractor (LSC) in which the LSC’s payment is related to some measure of the academic achievement of the students in his learning program.

Origins

The performance contracting movement is the foster child of discontent with our educational system coupled with the governmental zeal to improve assessment procedures. The public is concerned over the failure of the schools to provide training—particularly in reading—that will convert students into effective and productive citizens. The statistics are numerous and depressing. To illustrate, one-fourth of all students in the Nation have major reading deficiencies, and more than three million adults are illiterate. This is a national problem, but it is especially severe for culturally and economically disadvantaged student populations.

Poor student achievement is nothing new; what is new is public awareness of its consequences and the realization that neither increasing the gross national product nor spending more money on education is an automatic cure. At the same time, the public is demanding from the schools far more than first-rate teaching of the three R’s.

Most important for performance contracting, the schools now get the blame when their students fail. In earlier days learning was up to the student. If he failed to digest what the school offered, it was assumed that the fault lay in his laziness, lack of intelligence, or unwillingness to learn. Today the situation is reversed; many groups are demanding that schools somehow infuse all students with the skills necessary for the world of the 1970’s. A landmark in this trend was the proclamation in 1969 by James E. Allen, then U.S. Commissioner of Education, of a “national right to read.” Every student, Allen said, should leave school with the skill and desire to read to the full limits of his capacity, and public policy and action at both Federal and local levels should be directed to this goal. School systems have responded by searching for new methods to show their commitment to increasing student attainments, particularly among minority and disadvantaged students.

Another impetus toward performance contracting has been exasperation with the slow pace of technological change in American public school education. Rapid evolution of institutions and procedures has become a way of life in America, but education is a notable exception. The classroom of today may or may not be architecturally different from the classroom of 30 years ago; the usual classroom organization, materials, and techniques, however, are remarkably similar.

Educational research and development (R&D), despite a paucity of funds, has produced many prototypes of new equipment, techniques, and procedures. Typically, an innovation is developed, tested, and demonstrated under...
“field test” conditions. Then a report is written and quietly relegated to library shelves while public education goes on unaffected.

Everyone involved with educational R&D, technology, or policy has been frustrated by this resistance to change—most of all the suppliers of educational equipment, materials, and services. Many of them have entered the educational market since 1960, believing that their products and services would benefit students and yield a profit to the firms. Because a major market for new educational technology has not developed, however, many firms have been rethinking their marketing strategies and have given much attention to a total-systems approach and guarantees to buyers. They, too, became ready for the performance contracting movement.

A third strand in the pattern is the educational accountability movement. Taxpayers are now notoriously loath to meet the requests of school officials for resources; estimates of the failure rate for voter approval of school bonds and tax increases run as high as 75 percent. And, a typical attitude of public officials was expressed by Minnesota Governor Harold Le-Vander when he complained that, “We’ve doubled the expenditures for education in Minnesota but we haven’t doubled the quality.”

One response by many education leaders has been to try to develop programs to promote educational accountability. The basic idea is that schools will be held responsible for educational outcomes—that is, what the students learn. Performance contracting has seemed to a number of authorities to be one way to promote this aim. Indeed, the notions of performance contracting and accountability have been so linked in the last few years that it is important to emphasize that they are separate but related concepts.

The final trend in the performance contracting movement has affected all governmental activities: the drawing away from traditional procurement techniques and toward new and more system-oriented and output-oriented procedures. The new techniques, the developers hope, will lead to better analyses of the costs and benefits of governmental expenditures and provide contractors with more incentives for efficiency and innovation. This development has antecedents in such diverse sectors as water resource development and hospital insurance, and particularly in defense procurement. Consequently, in discussing performance contracting in education we shall have occasion to refer to experience in other areas. We shall particularly refer to experience in acquiring technologically advanced defense systems, which includes substantial experience with many of the techniques now involved in educational performance contracting.

In 1969 all these trends came together to produce the first performance contracts for educational services. Many have identified performance contracting with the features of the Texarkana project during 1969-70. This is a quite inappropriate identification, since many of the present programs bear little resemblance to the original Texarkana program. During 1970-71 school districts are applying the method in a variety of ways to achieve a variety of objectives.

To be more specific, a performance contracting program may involve a large profit-oriented business firm; it may involve advanced educational technology; it may involve extrinsic motivators for students and teachers; it may involve an independent educational evaluator or auditor; and it may involve many other elements. On the other hand, it may involve none of these features. Performance contracting is not a program, but a method for organizing programs. This method should not be confused with the specific ways in which it has been applied.

**Types of Contracts**

A contract is a legal agreement between two parties in which one party promises to execute some specific act or acts in return for a
consideration of value from the other. In most cases, if these acts are not performed exactly as specified, the buyer can refuse delivery and ask for redress. Contracts of this type are referred to as fixed-outcome fixed-payment contracts, or simply as fixed contracts.

Other contracts allow for a range of possible outcomes and a scale of payments. The outcome actually achieved determines the specific payment to be made. These contracts are usually employed when the buyer has no tightly defined idea of the action he wants performed, or the seller is uncertain of his ability to deliver. Contracts in which the payment is contractually contingent on the level of performance—that is, in which a range of outcomes are acceptable and a variable payment schedule is specified—are referred to as performance contracts.

A legal entity such as a school district may contract for resources or it may contract for results. That is, a school may contract for carpenters and bricks, or for a new building; for buses and drivers, or for the bussing of students; for teachers and books, or for student achievement. The crucial distinction is whether the school buys the resources and then directs their use to achieve some desired results, or whether it contracts directly for the results. In short, the crux is the allocation of authority over day-to-day operations.

Under a contract for resources, the school procures the resources and then issues specific directions on how the work is to be accomplished, the resource combinations to be used, work rules, and the like. These directions may be constrained by contract provisions; for example, it may be stated that all work rules must comply with general union regulations. The school retains basic entrepreneurial and managerial control, however.

Under a contract for results, this control is typically bestowed on the contractor, who is authorized to decide on work procedures and resource combinations. Again, the contract may establish general rules, such as that all employees must belong to a union or that the contractor must take affirmative action against racial discrimination. Obviously, the school’s control is less under a contract for results.

Both fixed and performance contracts may be drawn up for either resources or results. A performance contract for resources usually makes payment contingent on the quality of the resources delivered. For example, a contract for fuel oil may provide for differential payments depending upon the grade of fuel delivered; and teacher contracts sometimes award bonuses or pay raises to teachers who assume extra duties or who take special courses. Under a performance contract for results, payment is usually contingent on the quantity or quality of the results. For example, when a school district contracts with an educational firm to teach children to read, the payment scale is usually indexed on the children’s gain in reading ability.

Other “mixed” types of contracts are sometimes encountered. One form in particular warrants discussion: occasionally a contract calls for the provision of resources but bases the fee on some index of results. For example, a school district may purchase reading textbooks under the provision that a portion of the payment will be based on the reading achievement of students who use the texts. Such a contract may be called a mixed-performance contract. The seller is required to stand behind the results achieved with his product, but since he has little or no control over this achievement, such contracts are rather rare.

Program/Product Specification

Selecting the proper type of contract can be very difficult. In some circumstances certain types of contracts will simply not be feasible; in others, many or all types will be possible, and the problem is to determine the most appropriate one for the situation. The two major restrictions on contract selection deal with the specification of the product.

The feasibility requirement in contracting for results is that the product must lend itself to clear definition. Whether he is contemplating a fixed or a performance contract, the buyer must be able to specify the desired results in simple, straightforward terms to a prospective seller. These terms must also be meaningful to a knowledgeable third party so that, if a dispute
arises, he can determine whether the contract terms have been fulfilled or not. In purchasing books or equipment or even buildings, the school is usually able to describe exactly the product it is after. Such procurements as the purchase of administrative services are not easy. Typically, a school administrator is hired to "administrate." Most school boards believe they can judge the qualifications of a prospective administrator and list the functions he is to perform. It is usually extremely difficult if not impossible, however, for them to agree on an explicit, objective method for measuring his performance. Consequently, contracts between school districts and administrators are usually simple employment contracts; that is, they are fixed contracts for services or resources. Administrators can still be "held accountable," of course, with their efforts and results evaluated in subjective terms. These evaluations are necessary considerations in contract renewal proceedings but they are seldom, if ever, sufficiently specific to be useful in assessing a contract for results.

Performance contracting entails a more specific and stringent feasibility requirement: over and above clear definition, the contractor's actions—his performance—must be objectively measurable. This applies whether the contract is for resources or results. The quantity and quality of resources are almost always readily measurable; measuring results is often difficult. Many products that can be specified cannot be scaled. For example, a school can contract for the provision of food services either by specifying menus or by specifying general requirements of nutritional value, diversity, attractiveness, tastiness, and scheduling. But neither of these product descriptions, with the possible exception of nutritional value, is amenable to scaling and measurement. Other tasks performed in the school, however, such as student bussing and the teaching of typing and shorthand, yield products that have long been commonly expressed in readily measurable units.

In sum, school districts may choose among four major types of contracts to procure goods and services; fixed or performance contracts for resources, and fixed or performance contracts for results. A fixed contract for results is feasible only if the LEA can explicitly and objectively specify the results it desires. A performance contract for results requires, in addition, that the LEA be able to scale the results it is after, so that "more" and "less" become meaningful and measurable concepts.

Selecting a Contracting Method

The school district's choice of contracting method will depend on four factors: risk; relative advantages of the LEA and the potential contractor with respect to technology and management skills; institutional constraints; and any other intangible considerations that may apply. How these factors interact to determine the type of contract can best be explained by illustration. Student bussing is a good example. Typically, the task is to transport some number of students from some number of pickup locations to and from school, arriving at and departing from the school at certain times, for a certain number of school days. The major inputs are buses, drivers, time, service and maintenance, and management; and the output is the on-time pickup and delivery of the students. The inputs are easily measured, and simple measures of the output can be constructed, such as the number of days delivery is accomplished, the percentage of the students delivered each day, and the lateness of delivery (say in minutes). The problem facing the school officials is how to contract for this operation. As we have described it, the school is able to consider either a fixed or a performance contract for either resources or results.

Risk—Risk is present in the bussing operation in several forms. Machinery is subject to random failures that can cause operations to be delayed or even cancelled. So are drivers; they can be tardy or sick and they can commit errors of judgment. In some areas of the country, the weather is an important and extremely variable factor. In addition to these factors, all relating to the success of the bussing operation, the form or level of the operation is itself usually uncertain. The school will always desire to have "all" of its eligible students transported, but the number of students and their locations may change over the course of the year.
Both parties to the contract will have at least an informal budget; that is, each will have some funds directly available for bussing operations, and other monies that can more or less easily be reallocated to bussing activities if the need arises. Each will also have some more or less attractive alternative uses for the budgeted bussing funds. Furthermore, each party will have some preference, determined by the availability and alternative uses of funds as well as by many other factors, for stability in its finances and operations. Some groups desire to completely specify sources and usages of funds at the beginning of the budget period, while others prefer some degree of flexibility.

Relative technologies and management skills.—The technical and managerial skills available to the school and the prospective contractors may be identical or they may differ greatly. If they differ, it is usually because of specialization or economics of scale. Consider two cases. In the first case, the prospective contractor is a loosely organized (probably part-time) firm set up to handle this specific bussing operation. There may be no reason to believe it would be superior to the school in technical skill or management expertise, or that it could acquire any better equipment than the school could. In many situations of this kind, the option open to the school is between contracting with the firm or hiring most or all of the same personnel to operate the school's own bussing program.

At the other extreme, the school may have the option of contracting with a large well-established company that specializes in bussing services and has many employees who are well versed in bussing procurement, maintenance, operation, and management. Furthermore, this company probably has many bussing contracts, so that its personnel can be specialists and its equipment can be specialized, while still being scheduled and utilized efficiently. Such a firm is probably much better at bussing than the school could possibly be; that is, it can probably provide a specified bussing service cheaper than the school can or, for the same amount of money, can provide better service.

Institutional considerations.—Institutional factors may also restrain (or aid) the operations of either party. All organizations operate in an institutional, legal, and political environment that may profoundly affect their operating procedures and capabilities. Favorable personnel policies may aid the school in recruiting bus drivers, while a bussing firm may face strict union rules. In some cases State laws may flatly forbid a school to contract for bussing services. In other States, local political sentiment about the "free enterprise system" may prevent the school from running its own buses.

Other considerations.—Finally, contract divisions may be influenced by wholly rational but nonquantifiable considerations. Some organizations deem it desirable to develop an "in-house capability," and may be willing to put up with short-run disadvantages or inefficiencies associated with contracts for resources in order to increase their own long-term potential. In other situations the same organizations may believe they can enhance their long-term potential more by contracting for results and then closely observing the contractor's methods and technologies. Sometimes a school district may decide that, even though it might be somewhat less expensive to contract for resources, it would be advantageous to let a contract for results and not be involved in managing the operation. This can be a very rational decision if such involvement would interfere in any way with the district's other duties.

Contract Selection

Contract negotiations resolve three major issues:

1. Decisionmaking authority. When a school contracts for resources, the school retains authority over the operation. When it contracts for results, this authority resides in the contractor.

2. The decisionmaking time pattern. In a fixed contract for either resources or results, all decisions relevant to the contract are made during negotiation. In a performance contract, some decisions can be deferred.
3. Pricing, or the determination of the relationship between the act(s) the contractor is to perform and the payment he is to receive.

In practice these issues are usually resolved in two steps. The selection of a contract type resolves the first two, and then the negotiation of specific terms resolves the third. These issues should never be resolved independently. Further development of the bussing example will illustrate that these issues are highly interdependent and must be jointly resolved by considerations involving the aforementioned factors of risk, technologies and skills, institutional constraints, and other benefits and costs.

In a world of complete certainty contractual issues could be resolved solely on the basis of financial preferences and technical and institutional advantages. There would be no reason to defer any decisions, and the school's desire for financial stability would undoubtedly result in the selection of a fixed contract with both product and cost firmly specified at the beginning of the school year. The school's choice between contracting for resources or results would depend simply on the technological and institutional advantages under the two approaches and the resulting costs of the bussing operation. Simple situations of this type are exceedingly rare, however. Usually, at least a moderate amount of risk is inherent in any operation, and its presence multiplies the trade-offs that must be considered.

The presence of risk—whether it is in the form of uncertainty regarding the number of students to be transported, the number and location of the pickup points, the technology, or whatever else—significantly degrades the desirability of a fixed contract.

**Fixed contracts for resources.**—A school that negotiates fixed contracts for bussing resources must specify (at the beginning of the term) the types and quantities of resources it desires. It then knows its costs for the year. The risks in the bussing operation, however, prevent the school from knowing what the effectiveness of these resources will be. For example, bad weather or breakdowns can delay or prevent the delivery of students, or an increase in the number of students to be transported can seriously degrade the transportation of all students. On the other hand, if the busses turn out to be extremely reliable or if a large number of students transfer out of the district, the school may find itself with an excess of transportation resources.

Hence, if the school clings to fixed contracts for resources, it faces a tradeoff between the types and levels of resources to purchase, and consequently their costs, and the expected level of service they will provide. If the school places a high value on having all of the students arrive at school on time every day, it will have to contract for a liberal amount of high-quality resources. If its budget is tight, on the other hand, it will have to settle for a lesser amount of resources and less reliability. The school's perception of the amount of risk present will determine its concern with this tradeoff, and the school's relative valuation of funds and operational stability will determine the final selection. If it views the tradeoff as highly significant, however, the school may desire not to make a final, firm selection at the beginning of the term. One way to defer this decision is to use performance contracts for resources.

**Performance contracts for results.**—In this context, performance contracts for resources can most easily be thought of as contracts for buses and drivers, that allow the school to select the level of these resources it desires on a monthly, weekly or even a daily basis, with payments varying accordingly. With contracts of this type, the school is able to alter the level of bussing service and its cost as time passes. Whenever an unexpected event occurs, the school is able, if it so wishes, to change its level of intensity of operations. The flexibility comes at a price, however. The school will typically be forced to pay more for any given level of resources when it has the option of choosing and changing this level as time passes than it would have to pay if the level were fixed for the entire year. The school is shifting the burden of uncertainty onto the contractor, who will charge something for accepting the risk.
Stated conversely, the contractor would be willing to pay a premium (accept a lower price) for knowing at the beginning of the term what will be required of him throughout the term and being able to plan accordingly.

In considering a shift from fixed to performance contracts for resources, then, the school must evaluate the benefits it would receive from being able to alter the level and intensity of its bussing operations over time against the additional costs it would incur.

**Fixed contracts for results.**—Contracting for results is another way to cope with uncertainty. As mentioned previously, if the product can be specified, the school can consider contracting for results, and several output dimensions that could be specified in a student bussing operation were suggested. If the school is willing to specify acceptable levels of these output dimensions, it can negotiate with potential contractors.

The school determines the amount of risk it transfers to the contractor by specifying the output. If the contract states that all students will be delivered to school by 8 a.m., the school has essentially transferred all of the risk and the contractor's bid price will reflect this fact. If, on the other hand, tardiness will be allowed up to 12 days a year without affecting the contract, the contractor's risk is significantly less and his price will be lower. The school gets a lower price by relaxing its requirements, but it assumes more risk that the students not being delivered. Once again, the fundamental fact is clear; the school can transfer risk only if it is willing to pay a risk "premium." As with contracting for resources, it must evaluate the basic tradeoff between level of service and cost.

**Performance contracts for results.**—In contracting for resources it is often possible to reduce risk by deferring certain decisions—that is, by shifting from fixed to performance contracts. An analogous situation exists in contracting for results. In a fixed contract for the results, the product specifications and the payment to be made (which will reflect the contractor's risk at that particular level) are determined at the time of contract negotiations.

If the school is willing to accept a variety of levels of service with a corresponding scale of payments (a performance contract for results), it can expect the contractor to be willing to accept a lower price for any given level of service than he would under a fixed contract—he will not be in default if he fails to achieve a particular level of service. The school "pays" for the lower prices by giving up its ability to specify the level of service that will be delivered. Performance contracting for results has advantages and disadvantages for both parties then, as do all of the other types of contracts.

**Summary**

Four basic types of contracts can be used to procure goods and services: fixed and performance contracts for resources, and fixed and performance contracts for results. The basic distinction between contracting for resources and contracting for results is whether the school or the contractor will have authority over the day-to-day operation of the project. The basic distinction between a fixed contract and a performance contract is whether a single outcome and payment are specified, or whether a range of acceptable outcomes and corresponding payments are allowed for.

There are two fundamental restrictions on a school’s ability to contract for results. A fixed contract for results requires that the desired results can be defined explicitly and objectively. A performance contract for results has the additional requirement that the school must be able to measure objectively the results it is after; that is "more" and "less" must be meaningful and measurable concepts.

Choice among the four types of contracts depends on the nature of the operation. The basic considerations are risk, relative technologies, and management skills between school and contractor, institutional considerations, and any other intangible factors that may be present. Two generalizations concerning contract preference are possible. First, the greater the technological and managerial advantage of the prospective contractor over the school, the
greater the advantage of a contract for results over a contract for resources. This advantage may be offset, however, by institutional or sociopolitical considerations. Second, the greater the risk in a project, the greater the advantage of a performance contract over a fixed contract.

These generalizations are directly applicable to contracting for student achievement. A performance contract for results is most appropriate when (1) the desired results can be quantitatively measured and scaled, (2) the school believes the contractor has some technological, managerial or institutional advantage in achieving the desired results, and (3) the risk inherent in the operation is too great to allow the use of a fixed contract for results.
CONTRACTING FOR STUDENT ACHIEVEMENT

Educational Goals and Objectives

It is not easy to specify the objectives of an educational program, whether conducted by the school or by a contractor. One of the first problems is to distinguish clearly between the broad societal goals to which the school endeavors to contribute, and the narrower objectives of an educational program or even a single class within a school.

What appears at first glance to be a hairsplitting semantic distinction actually touches on a key point in regard to performance contracting. A goal is a broad statement of direction and is not concerned with a particular achievement within a specified time period. An objective, in a contract, is a desired accomplishment that can be attained within a given time and under specifiable conditions. The attainment of the objective should advance the system toward a corresponding goal.

Perhaps there was a time when schools could afford a relaxed attitude toward this matter, nodding in agreement with a set of lofty but abstractly stated goals while concentrating on the sole task of teaching reading, writing, and arithmetic. If so simple a time ever existed, it has vanished. The 20th century has generated a tremendous increase in the depth and breadth of the responsibilities assigned to American public education. Even the goals, while still lofty and broadly stated, have altered to reveal a more pointed concern with some of the special problems that affect our urbanized and more populous society. It is interesting to compare two sets of goals enunciated 46 years apart. In 1918, the Commission for the Reorganization of Secondary Education set forth “Seven Cardinal Principles” of education:

- Health
- Command of fundamental processes
- Worthy home membership
- Vocation
- Citizenship
- Worthy use of leisure
- Ethical character

In 1964, the American Association of School Administrators stated the following “Imperatives of Education”:

- To make urban life rewarding and satisfying
- To prepare people for the world of work
- To discover and nurture creative talent
- To strengthen the moral fabric of society
- To deal constructively with psychological tensions
- To keep democracy working
- To make intelligent use of natural resources
- To make the best use of leisure time
- To work with other people of the world for human betterment

While these goals are laudable and inspiring, it is difficult to translate them into workable objectives, and in the meantime the public clamor over education continues to grow. The electorate may vote down school bonds at the polls, but it shows a lively interest in measures of school performance. It avidly reads the latest national reading test scores and does not hesitate to demand better performance from local schools. The current trend, therefore, is to attempt to devise implementation objectives. To illustrate, the California Advisory Commission on School District Budgeting and Accounting has suggested some objectives for a sixth-grade reading class:

1. Upon completion of the term, a sixth-grade pupil will be able to read and pronounce with 80 percent accuracy a district-compiled list of sixth-grade words selected from the basic Stanford Test-Reading.
2. Ninety-five percent of all students completing the sixth grade will be able to read with 80 percent comprehension a selected passage which has a reading difficulty level of an average newspaper article as measured by a districtwide test.
3. Eighty-five percent of all students completing the sixth grade will write an essay of approximately 300 words on a
selected topic that meets the following criteria as evaluated by the teachers:

a. Not more than four errors in each of the following categories: word usage, punctuation, capitalization, and spelling.
b. Essay contains relevant material.
c. Paragraphs structured properly.
d. Essay structured properly.

4. Ninety percent of all students completing the sixth grade will prepare and deliver a 3-minute speech which contains proper word usage, pronunciation and articulation, fluency, sentence structure, quality of tone and expression, as evaluated by the teacher.⁶

These statements are lucid enough, but they still constitute a mixed bag of objective and subjective judgments. The yardsticks they incorporate would have to be much more precise to serve for a performance contract.

Contract Specifications and Noncontractual Objectives

An LEA may sometimes have program objectives that are not spelled out in the contract. For example, it may wish to promote racial integration by providing a remedial reading program. Another LEA may wish to improve its general curriculum by experimenting with new teaching techniques. Both programs could nonetheless have identical contract specifications. In evaluating the usefulness of the programs, then, the LEA should not judge solely by the contractor’s measured success in improving reading skill, let us say, but should take into account any progress toward collateral objectives.

Put differently, it is important to distinguish between the overall educational program and that part contracted out to an LSC. The distinction is especially important because of the increasing use of program planning in education.

In an educational context, program planning entails viewing a school or district as a system made up of various components, and weighing the relative contributions of each component to the attainment of system objectives. For example, instructional materials, administrative and managerial support, teachers, inservice training, and various teaching and learning strategies contribute variously to the achievement of custodial care, cognitive development, affective development, and the like.⁷

A total program approach in planning performance contract programs is highly desirable. It is important that an LEA considering a performance contract give considerable thought to its educational objectives, resources, and alternative strategies. This approach does not imply that the entire program should be turned over to the contractor, however. How much of the program authority should appropriately be placed in the hands of a contractor is a difficult but separate issue.

Present Curricular Limitations on Contractors

At this early stage of the performance contracting movement, it is usually unwise or infeasible for either party to consider assigning responsibility to a contractor for broad areas of subject matter. Performance contracting requires that the contractor’s achievement be objectively measurable, and at present most educators are in reasonable agreement on measurement techniques for only a few subjects, notably reading and mathematics—and even for these, many educators are dissatisfied with present testing instruments. This is clearly an area in which research is urgently needed; the future expansion of performance contracting may well depend on the development of such instruments.

Even now, however, there are exceptions. A few contractors are teaching subjects other than reading and mathematics, and novel bases for rewarding contractors have been devised that sidestep the direct measurement of academic achievement. In Gary, Indiana, for example, Behavioral Research Laboratories is responsible for an entire primary school curriculum—but,


interestingly enough, will be paid according to achievement in reading and mathematics.

Typing, shorthand, and most forms of vocational education also look like obvious candidates for contracting, since they usually possess well-established standards of achievement. But most schools believe they are handling these subjects well enough already, and that outside contractors have a technological advantage only in certain very specialized courses. Consequently, one may expect the spread of performance contracting into vocational courses to be limited and specialized.

Contractors have made a start in the vocational field, however, vocational education is currently being taught under a performance contract in Dallas, Texas. There is also a very interesting example of a comprehensive performance contracting program in vocational education from outside the public sector. The Thiokol Chemical Corporation has a Job Corps contract covering the entire operation of the Freeport Center in Clearfield, Utah. Thiokol's program combines training in seven vocational subjects—including agriculture, auto mechanics, medical services, and plastics—with a limited amount of conventional academic study. Successful students receive high school degrees or certificates verifying that they have passed the General Education Development Equivalency Test (GED). Thiokol's fees are related to four measures of achievement. First, Thiokol receives a specified amount for each student who receives a high school degree or GED certificate. It receives another fee for each Corpsman placed on a job, in a school, or in the military service (verifying this type of achievement is somewhat complex). During training Thiokol also receives a fee for each Corpsman for each month in residence, between a minimum of 3 months and a maximum of 9. The fourth type of payment hinges on the completion of particular courses of study and clusters of courses.

Relative Technologies and Management Skills

As previously discussed, a major factor in deciding whether to contract for resources or for results is a comparison of the two parties' technologies and managerial skills. It has been argued that outside contractors have several advantages over the typical public school district, notably in research and development program implementation, and special motivations.

Research and development.—Some contractors believe they have special classroom skills, particularly in remedial work. Many other contractors, perhaps most, do not claim any special advantages as teachers or directors of teachers. As they see it, their advantage lies in educational research and development, and their classroom activities are simply a technique for marketing the products of their development activities.

Private firms may well have an R&D advantage over LEA's. The corporate firm is usually more flexible, able to adapt more rapidly and easily to changes in the state of the art. LEA's have to be more cautious; while a private firm can capitalize its R&D expenses and spread them over sales to a number of school districts, and LEA conducts R&D at its own expense and the local taxpayers alone bear the burden.

If this advantage is real, one may ask why no large and profitable educational R&D activity has developed in the private sector. The usual answer is that the structure of the public school sector makes it very difficult to transplant technology, and that new procedures are required if the potentials for technological change in education are to be realized. Let us examine these structural conditions in more detail.

The public school sector consists of teachers and administrators, most of the latter being former teachers who rose to administrator status through their teaching experience and special courses of study. Seldom does an administrator enter "laterally" at, say, the superintendent or assistant superintendent level by way of some related career, such as educational research.

Teacher training is highly specialized, with emphasis on the "practical"; it tends not to involve the student teacher in work on research frontiers. The apprenticeship experience of physicians and teachers poses an interesting contrast. A doctor is likely to intern in a teaching hospital or medical school complex,
where he is exposed to the latest medical research and techniques of treatment. The student teacher is likely to do his practice teaching in an average classroom, not an experimental school, and in his apprenticeship is unlikely to be exposed to radical innovations. By and large, inservice training in medicine and other professions seems to do a better job of keeping the profession aware of new advances.

The teachers of the physicians are likely to be involved in research, much of which has been directly related to clinical practice. In contrast, educational research too often seems to be of interest more to the psychologist than to the classroom teacher or school administrator; but few school districts have the resources to mount an R&D effort to overcome the lack of relevant R&D from organizations outside the school sector.

In short, one of the structural problems in education is the gulf between the operating sector—the schools—and the activities and results of the educational research sector. Director contracts between LEA's and R&D organizations appear to some people to be an effective means of bridging this gulf. The new materials and techniques are directly available, after all; it appears to be simply a matter of putting them to work in the classroom—that is, of program implementation.

Here again, educational R&D organizations may have an advantage over the school.

**Program implementation.**—Each R&D organization naturally points with pride to its innovative techniques, materials, and equipment, which really would be novel in most typical classrooms. American educators have long been familiar with the components of most "advanced" programs, however. Contingency management, self-pacing materials, tape recorders, audiovisual machines, diagnostic tests, teacher aids, extrinsic motivators—all have been around the educational community for some time. R&D organizations may have a technological advantage in a more complex sense; their ability to put together innovative systems, as opposed to loose collections of components.

Many advanced programs attempt to change, simultaneously, a number of dimensions of the learning system. Innovations in materials, environment, and classroom organizations may be tried out in order to reinforce the influences of various changes. An outside organization may find it easier to design a new program "from the ground up" than could someone already in the system. The outsider is not committed to present ways of doing things; and suspect though outsiders often are, it is a common human foible that people within a system may accept suggestions from an outsider that they would resent if they came from a colleague. There are advantages to being an "outside expert" who is "called in."

A perhaps more important advantage of the outside firm is the fact that it has both the time and trained people to plan for system change and perform effective troubleshooting when difficulties arise. A program that embodies many innovations demands a great deal of advance planning. Later on, changes that require further planning time are likely to be needed once the program is started, achievement results begin to come in, and logistic and management problems crop up. An educational firm with programs in a number of cities may be able to afford planning and troubleshooting talent that would be denied to the local school.

**Motivation.**—Another advantage often attributed to contractors is the profit motive, presumably a solid reason for being concerned about whether students are actually learning. Some observers, on the other hand, view it as a strong disadvantage on the ground that contractors will be tempted to drive their students too hard and exploit them for the monetary return.

In analyzing incentives, one must distinguish among those operating at the firm level, at the teacher level, and at the student level. Some programs, though certainly not all, incorporate extrinsic motivators for students. In a few programs teachers share in the profits. However, it is important to keep in mind that in most performance contracting programs, teacher and student incentives do not differ from those in conventional programs.

The profit motive is undoubtedly important, but should not be overemphasized. Contractors have other interests that transcend immediate
monetary gains and may occasionally transcend the performance contract itself. It would be self-defeating for them to attempt to squeeze the last drop from any single program. Most contractors have a greater interest in acquiring a reputation for success than in earning maximum fees. Most programs are of rather short duration and the contractors, whether they are educational firms or specially organized groups of teachers, have a vital interest in what happens after these programs are completed. Some firms want to engage in more performance contracting programs and must accordingly perform well under their present contracts. Other firms are mainly interested in future sales of equipment and materials, and must therefore prove the effectiveness of their items. And the teachers in contracting programs, like teachers in general, are dedicated people on the whole, as interested in doing a good professional job, and in their future employment, and remuneration as they are in current rewards.

In short, many incentives are at work, both monetary and nonmonetary, both immediate and long-term. Taken together they may well constitute the major advantage of contracting for results.

Institutional Considerations

Most institutional considerations are local phenomena, but two exceptions have received much attention: State laws concerning school operations, and the attitudes of local, State, and national teacher organizations.

Legal considerations.—There are undocumented reports from several States that legal experts have issued interpretations to the effect that it is illegal for a public school district to contract with a private firm for the education of the school’s students. Since these interpretations have not been published and circulated, it is unclear on what points of the contractual arrangements the legal opinions bear. At any rate, they have imposed no serious obstacles thus far; in most States from which adverse opinions have been reported, there is now at least one operational performance contract involving a private firm.

One major legal issue appears to be the responsibility of the LEA with respect to the education of the children assigned to the LSC’s program. There is great concern that the legally responsible authorities will surrender educational control to private firms. The American Federation of Teachers, for example, leads off its list of seven charges against performance contracting with the contention that it “... will take the determination of educational policy out of the hands of the public and place it in the hands of private industrial entrepreneurs.” Any such transfer would be not only dangerous but probably illegal under most educational codes.

Clearly, like any other public agency responsible to the citizenry, an LEA must have control of all its programs. It can maintain it in several ways: it can hire its own staff and subject them to day-to-day direction of officials in the educational hierarchy; or it can establish product or output achievement specifications, contract for results, and ensure that the contract provisions are met.

In both cases, the public interest is protected if the contract is well written and the supervision function is discharged properly. In both cases the public interest is ill served if supervision is inadequate. The point is that there is nothing inherent in contracting for results that decreases public control.

In two ways, however, student achievement contracts might lead to an improper transfer of decisionmaking and control authority from public agencies to private firms. One would be failure to specify output objectives or monitor performance. If an LEA merely called in a contractor and gave him free rein to specify the objectives and how he intended to achieve them, the LEA would be abdicating its responsibilities.

The other danger is less blatant and more complex. An important element in the theory of performance contracting is that the educational authorities will set objectives and establish incentives for contractors. Contractors will determine the optimal methods to respond to the incentives and maximize the attainment of the

objectives. For this model to work, the contractor must have flexibility in choosing the methods he wishes to use. On the other hand, the policymakers may be far from indifferent with respect to methods. Some methods of instruction might produce cognitive results but would have undesirable effects on students (the image of Charles Dickens' Mr. Gradgrind springs to mind). Methods that the school district does not want used should be clearly understood as prohibited. Of course, unless the set of approved methods is large enough to provide the contractor with a reasonable range of feasible choices, there is little point in contracting for results.

In general, it would appear that the intent of legal codes will be met if the LEA establishes firm and clear supervisory authority over the LSC. In programs where the LSC is operating within an otherwise conventional school, the principal and whatever other supervising authority is established would appear to provide this essential function. In Gary, Indiana, where an entire school is under the direction of Behavioral Research Laboratories, a school-board-employed and long-time principal is nonetheless located in the school and provides a continuing presence as the representative of public authority.

One may conclude that legal requirements, which prevent publicly constituted bodies from contracting away their responsibilities, dictate careful consideration of how performance contracting programs are organized, but probably will pose no major blocks to the application of the concept in education.

Several other legal requirements may affect performance contracting. For example, many States have laws concerning textbooks and other materials, and about how contracts must be let. In many cases, waivers of these requirements have been obtained on the grounds that performance contracting programs are experiments. If performance contracting becomes a standard practice, it will be because it has proven its usefulness; success would be its own argument for legislative or administrative exemption from or changes in legal codes.

Union considerations.—In school districts with a recognized teachers' organization or union, the master contract may impose constraints on performance contracting. In contracts for student achievement, the learning system personnel may be on the payroll of the LEA and may be members of a teachers' union if there is one in the district. If teachers are brought in from outside the area, presumably they could be recruited by a union. Although it seems there should be no inherent difficulty in harmonizing performance contracting and the union-employer relationship, the fact is that union questions are fast emerging as one of the major issues.

In general, during the 1970-71 school year, teacher unions on the local level have been critical but willing to go along with the experimental programs in order to see what they can accomplish. (But in some areas, such as New York City, unions have brought or threatened to bring court suits to try to block programs.) It is clear, however, that this tolerance may not last if such programs become a continuing and major educational activity.  

One basic issue is the relationship of the contract for student achievement to the contract determined by collective bargaining between the union and the school board. The essence of collective bargaining is the union and management jointly determine conditions of work; in the educational context, teaching procedures are frequently involved in this issue. This leads to a conflict. Some LEA's have argued that so long as teachers remain on the school district's payroll, the requirements of the union contract apply and the union has no interests in the terms of the contract between the LEA and the LSC. The counterargument is that the role and function of the teachers in a student achievement program differ from those in a conventional program, and the change is a proper matter for collective bargaining.

One obvious solution is union involvement in negotiations, but it is doubtful either the union

or the LEA would permit it. In any event, LEA-union relationships are likely to be a critical issue in the next few years.

Other Considerations

If contracting for results becomes widespread, it will have a substantial impact on the current roles and functions of teachers and school administrators. The nature of the change can be perceived in the titles that some LSC's with current programs have given former teachers and principals now in their employ—titles such as "curriculum supervisor" and "learning center manager."

Teachers with demonstrated ability to produce achievement gains—as these are measured in such programs—will be in demand. It remains to be seen whether such ability correlates with the qualifications stressed by schools of education and presently valued by school districts. For the time being, at least, any discrepancies will have trivial effects. The present programs make up only a small part of school districts' activities. A teacher who wants no part in such instruction, or tries it out but is unsuccessful, can be transferred easily. If contracting for results becomes widespread, on the other hand, traditional assignment policies may conflict with the operation of such programs.

Individualized instruction of the type used in many learning centers lends itself to the utilization of paraprofessionals. If paraprofessionals become a large fraction of the staff of LEA's, their personnel policies will have to be adapted. Also, the teacher will become much more of a classroom manager or learning director than he is at present.

Another major issue for teachers is merit pay. Some performance contracting programs provide for bonuses to the teachers, and teacher groups are concerned that such bonuses may eventually lead to the institution of merit pay. This concern may be unwarranted; teacher bonus or incentive provisions are much less common in performance contracting programs than many people believe.

Another fundamental issue is what these programs will do to the relationship between the schools and the public. Many school administrators hope they will increase support for the schools. After all, performance contracting for student achievement demonstrates that the school is trying to respond to public demands for improved compensatory education, improved learning techniques, and accountability. But therein lies a dilemma: if the program fails, the public may berate the school not only for failing to improve educational performance, but also for squandering the taxpayers' money on radical schemes. If it succeeds, the public may fear all the more the surrender of public control of education to an education-industrial complex.

The controversy in this area indicates considerable misunderstanding about what contracting for student achievement can and cannot do, and misunderstanding about some of the dangers. First, the mere letting of such a contract will not resolve any of the school's public relations problems. As discussed previously, a contract is no more than a method; it is not a program, nor are its results a foregone conclusion, good or bad.

The second important point has already been discussed; if school boards and administrators carry out their responsibilities when contracting with LSC's, it is difficult to see any danger that educational control will slip into the private sector. If they do not, there is a significant danger of improper private influence in decision-making. Whether this would lead to a "takeover" or to nothing more serious than the dismal failure of a program, it is impossible to foretell.

Summary

The goals of the schools have historically been expressed in broad philosophical terms. The demand for educational accountability is resulting in a search for more operational objectives. Objectives that are specified precisely and objectively enough to meet the requirements of internal educational accountability—that are measurable, in short—will probably suffice for
educational contracting. At the present time only certain objectives, such as those associated with reading, mathematics, and vocational education skills, appear to have such precise specification.

A performance contract for results is appropriate only if (1) scalable objectives can be defined, (2) the school believes the contractor has some technological, managerial, or institutional advantage in achieving the desired objectives, and (3) the risk inherent in the operation is too great to allow the use of a fixed contract for results.

Teacher groups or educational firms may have several advantages over local school districts in organizing and operating new and advanced learning programs. First, some of these groups may have an edge in organizational ability. One of the features of many advanced programs is the attempt to change simultaneously a number of dimensions of the learning system. Innovations in materials, environment, classroom organization, and many other factors are attempted in order to reinforce the good effects of single changes. Experience with integrating innovative systems is of great value in these activities.

Second, an outside organization is not committed to the status quo. Outsiders are often able to propose and establish changes in organizational and operational procedures that are politically infeasible for local officials to propose.

A third possible advantage of a large educational firm is the ability to plan and implement changes to ongoing programs. When implementing an advanced learning system, it is likely that once the program is started and achievement results begin to become available, operational, logistic, and management problems will crop up and necessitate changes in program content and organization. Such changes require time and coordination. A large firm with programs in a number of cities may be able to better afford the planning and troubleshooting talent and equipment required in designing and implementing these changes than would a local school.

Finally, the contractor’s greatest advantage may simply be the fact that he is held accountable for his results. Immediate monetary incentives are important, but most educational programs are of rather short duration, and the contractor may wish to enter new ones or concentrate on selling his successful materials, techniques, and equipment. In either case, he has a strong motivation to seek a reputation for success rather than maximum profits.

If the district believes that a potential contractor possesses any of these advantages, and if local institutional factors are favorable, a contract for results may be considered.
CURRENT PROGRAMS IN CONTRACTING FOR STUDENT ACHIEVEMENT

In the 1969-70 school year, only two LEA's had programs (see table 1). The Texarkana-Dorsett program received great publicity, both favorable and unfavorable. The contract specified a maximum payment of $135,000 and essentially stipulated that Dorsett would receive $80 for each student who achieved a one-grade level advance in a subject in 80 hours of instruction. The contract was part of a 5-year, $5 million dropout prevention program financed mainly by U.S. Office of Education title VIII and title III funds, with some participation by the Department of Housing and Urban Development’s Model Cities program. Although the outcome of this contract is still subject to dispute, this program has been the model for many later performance contracting programs.

While the large scale, federally financed program was in operation at Texarkana, the Portland, Oregon, public schools were pioneering a different approach. Portland experimented with five very small, locally financed programs during the second half of the 1969-70 school year and the 1970 summer session. These programs are currently being evaluated and compared. Little publicity has been given the Portland experiments, which evince a noteworthy willingness to explore different types of arrangements.

One cannot say exactly how many performance contracts are in operation for the 1970-71 school year, because new programs are being started throughout the year and many have received little publicity. Table 2, however, lists some of the more publicized ones.

Most of the contracts in table 2 are performance contracts for results but some—notably, the BEL/Philadelphia contract—are fixed contracts for results. Fixed contracts for educational achievement are rare because of the high degree of risk present in the educational process. This is reflected in the relatively high price of the BRL contract—exactly twice what BRL charges for a fixed-resource contract.

A different approach to performance contracting is being attempted in at least five districts (see table 3). In these programs, as in the programs shown in table 2, the contractor's fee is related to an output measure, and individualized instruction is viewed as a key to improvement. The approach, however, differs from that of previous programs by concentrating on the teaching function. The theory is that unless the level of teaching is upgraded the level of student achievement over any long period of time will not be upgraded. The Institute for the Development of Educational Activities (I/D/E/A) is conducting five programs to teach

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Table 1.—Completed performance contracting programs

<table>
<thead>
<tr>
<th>Local education agency</th>
<th>Date completed</th>
<th>Learning system contractor</th>
<th>Subject</th>
<th>Students</th>
<th>Maximum payment (approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Texarkana, Texas</td>
<td>Nov. 69</td>
<td>Dorsett Educational System</td>
<td>Reading, math</td>
<td>300</td>
<td>$135,000</td>
</tr>
<tr>
<td>Portland, Oreg.</td>
<td>Jan. 70</td>
<td>Five reading teachers</td>
<td>Reading</td>
<td>140</td>
<td>2,500</td>
</tr>
<tr>
<td>Portland, Oreg.</td>
<td>June 70</td>
<td>One reading teacher</td>
<td>Reading</td>
<td>65</td>
<td>1,500</td>
</tr>
<tr>
<td>Portland, Oreg.</td>
<td>June 70</td>
<td>Larrabee and Associates</td>
<td>Reading</td>
<td>200</td>
<td>500</td>
</tr>
<tr>
<td>Portland, Oreg.</td>
<td></td>
<td>Six reading teachers (subcontract with Open Court Publishing Co.)</td>
<td>Reading</td>
<td>80</td>
<td>5,500</td>
</tr>
</tbody>
</table>

1 This program has been "turnkeyed" (operated as part of the regular program) for the 1970-71 school year.
2 This payment is in addition to regular salaries.
Table 2.—Operational programs, Fall 1970

<table>
<thead>
<tr>
<th>Local education agency</th>
<th>Learning system contractor</th>
<th>Subject</th>
<th>Students</th>
<th>Maximum payment (approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boston (Roxbury), Mass.</td>
<td>Educational Solutions</td>
<td>Reading</td>
<td>400</td>
<td>K-6</td>
</tr>
<tr>
<td>Cajon Valley, Calif.</td>
<td>Macmillan Educational Services</td>
<td>Reading</td>
<td>80</td>
<td>4</td>
</tr>
<tr>
<td>Colorado, State of:</td>
<td>Dorsett Educational Systems</td>
<td>Reading</td>
<td>(300)</td>
<td>(6-8)</td>
</tr>
<tr>
<td>Cherry Creek</td>
<td></td>
<td>Reading</td>
<td>100</td>
<td>6-8</td>
</tr>
<tr>
<td>Denver</td>
<td></td>
<td>Reading</td>
<td>100</td>
<td>6-8</td>
</tr>
<tr>
<td>Englewood</td>
<td></td>
<td>Reading, math</td>
<td>875</td>
<td>9-12</td>
</tr>
<tr>
<td>Dallas, Texas</td>
<td>New Century</td>
<td>Reading, math, occ. skills, motiv.</td>
<td>875</td>
<td>9-12</td>
</tr>
<tr>
<td>Dallas, Texas</td>
<td>Dealer for E.D.L. Materials</td>
<td>Reading</td>
<td>2,160</td>
<td>9</td>
</tr>
<tr>
<td>Flint, Mich.</td>
<td>Behavioral Research</td>
<td>All subjects</td>
<td>800</td>
<td>K-6</td>
</tr>
<tr>
<td>Gary, Ind.</td>
<td>Laboratories</td>
<td>Reading, math</td>
<td>103</td>
<td>2-4</td>
</tr>
<tr>
<td>Gilroy, Calif.</td>
<td>Westinghouse Learning</td>
<td>Reading, math</td>
<td>400</td>
<td>1-6</td>
</tr>
<tr>
<td>Grand Rapids, Mich.</td>
<td>Westinghouse Learning</td>
<td>Reading, math</td>
<td>600</td>
<td>6-9</td>
</tr>
<tr>
<td>Grand Rapids, Mich.</td>
<td>COMES</td>
<td>Reading</td>
<td>480</td>
<td>6-9</td>
</tr>
<tr>
<td>Greenville, S.C.</td>
<td>Learning Research Associates</td>
<td>Reading, math, social studies science</td>
<td>300</td>
<td>1</td>
</tr>
<tr>
<td>Jacksonville, Fla.</td>
<td>Educational Solutions</td>
<td>Reading, math</td>
<td>400</td>
<td>6-8</td>
</tr>
<tr>
<td>Oakland, Calif.</td>
<td>Behavioral Research</td>
<td>Reading, math</td>
<td>20,000</td>
<td>1-2, 7-8</td>
</tr>
<tr>
<td>Philadelphia, Pa.</td>
<td>Laboratories</td>
<td>Reading</td>
<td>1,500</td>
<td>2-8</td>
</tr>
<tr>
<td>Providence, R.I.</td>
<td>New Century/Communications Patterns</td>
<td>Reading</td>
<td>875</td>
<td>3, 5, 6</td>
</tr>
<tr>
<td>Savannah, Ga.</td>
<td>Learning Foundations</td>
<td>Reading, math,</td>
<td>-300</td>
<td>7-12</td>
</tr>
<tr>
<td>Texarkana, Texas</td>
<td>Educational Development Labs</td>
<td>Reading, math</td>
<td>(2,500)</td>
<td>(1-9)</td>
</tr>
<tr>
<td>Virginia, State Of:</td>
<td>Learning Research Associates</td>
<td>Reading, math</td>
<td>500</td>
<td>4-8</td>
</tr>
<tr>
<td>Norfolk</td>
<td></td>
<td>Reading</td>
<td>500</td>
<td>1-7</td>
</tr>
<tr>
<td>Buchanan Co.</td>
<td></td>
<td>Reading, math</td>
<td>250</td>
<td>1-7</td>
</tr>
<tr>
<td>Dickinson Co.</td>
<td></td>
<td>Reading, math</td>
<td>250</td>
<td>4-7</td>
</tr>
<tr>
<td>Lunenberg Co.</td>
<td></td>
<td>Reading, math</td>
<td>250</td>
<td>4-6</td>
</tr>
<tr>
<td>Mechlenburg Co.</td>
<td></td>
<td>Reading, math</td>
<td>500</td>
<td>4-9</td>
</tr>
<tr>
<td>Prince Edward Co.</td>
<td></td>
<td>Reading, math</td>
<td>500</td>
<td>4-9</td>
</tr>
</tbody>
</table>

NOTE—Data in parentheses are overall figures for the State’s contract.

Table 3.—Teacher achievement programs, Fall 1970

<table>
<thead>
<tr>
<th>Local education agency</th>
<th>No. of teachers in training program</th>
<th>Target payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alachua Co., Fla.</td>
<td>40</td>
<td>$24,000</td>
</tr>
<tr>
<td>Orangeburg, N.Y.</td>
<td>40</td>
<td>24,000</td>
</tr>
<tr>
<td>Port Jefferson, N.Y.</td>
<td>30</td>
<td>18,000</td>
</tr>
<tr>
<td>Royal Oak, Mich.</td>
<td>30</td>
<td>18,000</td>
</tr>
<tr>
<td>Yellow Springs, Ohio</td>
<td>40</td>
<td>24,000</td>
</tr>
</tbody>
</table>

NOTE.—The contractor for all five programs is the Institute for the Development of Educational Activities (I/D/E/A).

To round out the 1970-71 performance contracting picture, table 4 lists the programs being conducted under the Office of Economic Opportunity’s social experiment in performance contracting. These programs, unlike the others, are all components of a common program plan and are therefore very similar.

Program Objectives and Specifications

A major difference among programs is in their objectives. A glance at tables 2, 3, and 4 reveals that performance contracts are in force in large cities, small towns, and rural areas, representing a spectrum of socioeconomic conditions. The number of students involved ranges from 100 to 20,000 and the grades from kindergarten through high school. It is to be expected that

individualized instructional techniques to teachers with inservice training sessions. Criteria for evaluating the teacher’s abilities upon completion of the program, which will form the basis for the payments to I/D/E/A, are being developed jointly by I/D/E/A and the local educational agencies.
Table 4.—Office of Economic Opportunity social experiment programs, Fall 1970

<table>
<thead>
<tr>
<th>Local education agency</th>
<th>Learning system subcontractor</th>
<th>OEO grants ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchorage, Alaska</td>
<td>Quality Education Development</td>
<td>44,632</td>
</tr>
<tr>
<td>Clarke Co., Ga.</td>
<td>Plan Education Centers</td>
<td>30,770</td>
</tr>
<tr>
<td>Dallas, Texas</td>
<td>Quality Education Development</td>
<td>299,417</td>
</tr>
<tr>
<td>Duval Co., Fla.</td>
<td>Learning Foundations</td>
<td>342,300</td>
</tr>
<tr>
<td>Fresno, Calif.</td>
<td>Westinghouse Learning</td>
<td>299,015</td>
</tr>
<tr>
<td>Grand Rapids, Mich.</td>
<td>Alpha Systems</td>
<td>322,464</td>
</tr>
<tr>
<td>Hammond, Ind.</td>
<td>Learning Foundations</td>
<td>342,628</td>
</tr>
<tr>
<td>Hartford, Conn.</td>
<td>Alpha Systems</td>
<td>320,673</td>
</tr>
<tr>
<td>Las Vegas, Nev.</td>
<td>Westinghouse Learning</td>
<td>298,744</td>
</tr>
<tr>
<td>McComb, Miss.</td>
<td>Singer/Graflex</td>
<td>263,085</td>
</tr>
<tr>
<td>McNairy Co., Tenn.</td>
<td>Plan Education Centers</td>
<td>286,991</td>
</tr>
<tr>
<td>New York (Bronx), N.Y.</td>
<td>Learning Foundations</td>
<td>341,796</td>
</tr>
<tr>
<td>Portland, Me.</td>
<td>Singer/Grafex</td>
<td>308,184</td>
</tr>
<tr>
<td>Rockland, Me.</td>
<td>Quality Education Development</td>
<td>299,211</td>
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<tr>
<td>Seattle, Wash.</td>
<td>Singer/Grafex</td>
<td>343,800</td>
</tr>
<tr>
<td>Taft, Texas</td>
<td>Alpha Systems</td>
<td>243,751</td>
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<tr>
<td>Wichita, Kans.</td>
<td>Plan Education Centers</td>
<td>294,700</td>
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<tr>
<td>Mesa, Ariz.</td>
<td>Association of Teachers</td>
<td>33,976</td>
</tr>
<tr>
<td>Stockton, Calif.</td>
<td>Association of Teachers</td>
<td>55,154</td>
</tr>
</tbody>
</table>

Note: Each program is for 600 children in reading and mathematics grades 1-3 and 7-9.

1 Includes target payment to the subcontractor and $30,000 to $50,000 for the LEA management team.
2 This payment is in addition to regular salaries.

the objectives of the various LEA's must also differ.

On the most general level, the pressures previously discussed—pressure for accountability, desire to show concern for achievement of minority groups, and so forth—seem to apply in varying degrees to the decisions of the LEA's to try a performance contract. On a more specific level, certain objectives seem to be particularly prevalent.

Many LEA's are looking for a dramatic and immediate improvement in the skills of some group of underachievers so to brighten up community views toward the schools. In southern cities involved with desegregation efforts, this consideration seems particularly important.

A second basic objective is to discover new teaching techniques or equipment that can be adopted for the regular program. In such cases the program is viewed basically as part of the LEA's curriculum development goals.

Some programs seem to stem from political considerations. Performance contracting has achieved the status of being "in," and if Federal funds are to be had for the asking, some districts seem inclined to plunge in without much analysis of needs. Ideological elements may also enter.

Citizens may argue that "free enterprise" has the answers to school problems. Some school officials are in the enviable position of being able to try out a performance contracting program using special Federal funds and, one might say, loaded dice: if the program works, they can take credit for being open-minded and innovative; if it produces no gains, they have evidence that their regular program is as good as any.

Political considerations also affect teachers. Some teachers feel that unless they cooperate they will bring down the wrath of the public, which seeks educational innovation and accountability. In two districts involved in the OEO experiment, teachers groups have initiated their own performance contracts. One of these programs apparently was founded on the proposition that this type of arrangement was politically inevitable and it was better for teachers to do it themselves than to have an outside firm involved in classroom instruction.

Broad objectives are also likely to depend on which level of government is the sponsor of the performance contract. Many programs have originated at the LEA level. Others—the Virginia and Colorado programs, for example—originated at the State level and the basic project planning
took place outside the LEA's. The OEO programs, of course, were sponsored at the Federal level. The OEO projects are unique—and unlikely to be repeated—in that the basic program goal is to compare the contributions of various learning system elements to student achievement.

Program objectives are important for structuring the evaluations of programs sponsored primarily as an adjunct to an LEA's R&D program and should be judged differently.

Differences in program objectives may or may not affect the specifications given to the contractor; regardless of program objectives, the contract objectives may be to work with a specified group of students who need remedial studies and to increase their reading and mathematics achievement to some designated level. Contract evaluation therefore sheds light on but does not answer whether contractual performance has promoted basic program objectives.

**Contract Objectives and Specifications**

Every LEA that has entered into a performance contract with an LSC has contracted out some portion of a reading program. It is relatively easy to set up objectives for these programs, particularly if they are remedial. Most people agree that students who are two or more grade levels behind in reading or mathematics should receive assistance in improving their basic skills.

Some districts, however—notably Gary, Dallas, and Jacksonville—have gone further and contracted for a wider curriculum. These districts apparently believe they have specified meaningful objectives for all the subjects under contract, but payments to the contractors in Gary and Jacksonville are nevertheless based on reading and mathematics achievements. Contract evaluation therefore sheds light on but does not answer whether contractual performance has promoted basic program objectives.

**Problems With Testing**

Data needs versus burdensome testing.—Several problems arise if the contract specifies an objective to be measured by norm-referenced tests. For one, many LEA's have been unprepared for the great amount of testing required, with the possibility of "overtesting." There are, of course, the initial and final achievement tests. A set of diagnostic tests is usually necessary to structure an individual program for the student. Interim tests will be required, both for payment purposes and so the contractor can modify his program if it is not having the expected results. The district will probably have a regular testing program. Special tests for evaluative purposes may be desirable. All this can put a strain on the bewildered student, and scheduling can become a problem for the school.
Contractors and school officials are properly worried about overtesting, but for the time being there seems to be no escape. We are going through an experimental, evaluative period in the history of performance contracting. Millions of dollars are being spent and perhaps more will be spent in the future; so it would be foolish not to generate the data required for a sound assessment of the concept and its results. Nonetheless, balancing the need for data against the burdens of testing remains a major operational issue.

Measurement integrity.—Clearly, any contractor who is going to be paid on the basis of a test has an incentive to "teach to the test." There is also the obvious temptation, as in the first year of the Texarkana program, for the contractor to go one step further and actually teach the test—teach the students in some test question.\(^2\) If maintaining measurement integrity were the only difficulty with the use of standardized tests for achievement, the controversy could be easily resolved. Rules governing how closely teaching materials may correlate with test questions could be established with serious penalties for violation. This procedure has been adopted in the Jacksonville program. The OEO and Virginia programs have adopted blind testing whereby the contractor does not know what tests are going to be used. In short, using standardized tests for achievement measures creates contractor-motivation problems, but these can be countered.

Test results and educational goals.—Performance contracting has triggered review of the use of standardized tests as a proxy for school output. Increased attention to the relationship between test measurements and school effectiveness has been a collateral but salutary impact of the initial experience with performance contracting.

The discussions have centered on five statistical and conceptual questions.\(^1\) (1) Do standardized achievement tests measure what they purport to measure? (2) Do the tests reflect the content of the performance contracting programs to which they are being applied? (3) Do the tests yield statistically reliable measures of achievement gains? (4) Are the achievement gains measured by standardized tests relevant for the cognitive goals of the schools? (5) Are the achievement gains measured by the tests relevant to the overall goals—including affective and other noncognitive goals—schools?

To address these questions thoroughly would require far more detail than is appropriate for this survey of performance contracting; therefore, we shall merely note the importance of the debate about testing and content ourselves with a few words about each question.

With regard to the first question, many tests have technical inadequacies. For example, some require skills different from those that are supposed to be tested; some instructions are difficult to follow; some formats are confusing; and so on. It is certainly desirable that these problems, familiar to the teaching profession but little known outside it, should be aired. These technical problems become even more important when achievement test results are no longer restricted to intraschool purposes—class assignments, counseling, program evaluations, and so forth—but are used as accountability measures and to compute contractor payments. Even so, these tests have long been used and will no doubt continue to be used for a host of educational purposes. To hold that their technical qualities are adequate for traditional purposes but inadequate for performance contracting seems an unpersuasive distinction.

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\(^2\) It is only fair to note that there are occasional claims that some teachers teach to the test even without performance contracts. See, for example, "Board to Probe UTLA Evidence on Reading Tests," Los Angeles Times, November 3, 1970, part II, p. 1.
The second question arises because the behavioral elements involved in a performance contracting program are not likely to match exactly those measured by a standardized test. The typical test covers a wider range of skills or subjects than does the typical performance contracting program. Thus, the school and the contractor, unable to find an appropriate test for their program, are forced either to structure the program to the available tests or simply attempt to live with the discrepancies between the course content and the testing instruments.

The reliability issue centers on the errors associated with individual gain scores. The problem is to distinguish "true" gains from the measurement errors associated with any gain score. This task is particularly difficult for programs with short time-spans, such as 2 or 5 months, in which the measurement errors can easily exceed the amount of gain involved. Attempting to finesse this problem by using group averages raises the possibility that contractors will focus on some children and ignore others.

The fourth question poses a broader issue. Even if one is satisfied with the measurement properties of the achievement test results, do these results contribute to the basic cognitive goal of improved academic ability? For example, improved reading skill, as measured on an achievement test, should enhance children's enjoyment of reading and inspire them to do more reading on their own. In turn they should show a general academic improvement in all school subjects. In actual practice it may not work this way. Thus, a recurring question about performance contracting programs is whether the increased ability is retained over some reasonably long period of time, and whether the student can actually turn it to advantage in other areas.

The final question involves the measurement and testing issue, but transcends it. The question really asks if cognitive ability is the proper criterion for judging school success. In addition to cognitive skills, are not affective results important? Also, are reading and mathematics (for which achievement tests are best developed) the areas to be emphasized to the exclusion of other skills and subject areas? Because this debate goes so far beyond measurement, we will leave it at this point but will return to it in our consideration of program evaluation.

In sum, the use of standardized achievement tests to define contractors' responsibilities and to compensate them poses significant statistical and conceptual problems. Alternatives to these tests, however, such as criterion-referenced tests, also pose problems. For the near future it appears likely that most LEA's and LSC's will regard the use of standardized achievement tests in performance contracting programs as Hobson's Choice.

Learning System Contractors

Contractor characteristics.—The performance contractors are a heterogeneous group, ranging all the way from individual English teachers to subsidiaries of some of the Nation's largest corporations. In three of the Portland contracts, the school district contracted directly with its own English teachers. Two OEO contracts involve local teachers' organizations. Most of the other contracts are with private profit-oriented firms.

These firms, however, differ greatly in backgrounds, professional specialities, product lines, and risk-bearing abilities. In general, each firm has followed a different path into performance contracting and each has unique reasons for being there. These firms encompass publishing houses, educational technology firms, educational materials producers, psychological motivation groups, and educational service and tutorial firms. As would be expected, their learning approaches correspond strongly to their general backgrounds.

Every program is predicated on the basis that the contractor has "something new," but the innovation varies greatly from program to program. A few contractors heavily stress new

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14 Several groups—e.g., Education Turnkey Systems, Inc., The Institute for Educational Development, and the Research Council for the Great City Schools—have compiled extensive information concerning private firms in the educational market. The best reference is in Efrem Sigel, Accountability and the Controversial Role of the Performance Contractors, Knowledge Industry Publications, Inc., 1971.
hardware, but most emphasize other innovations. Some stress new materials. Some stress new incentives such as extrinsic motivators. Others stress reorganized classrooms and new classroom management techniques.

The OEO experiment makes considerable use of the differences among LSC’s programs. LSC’s were carefully selected to provide a diverse sample of approaches. The sample includes firms that make extensive, medium, and little use of educational hardware, and the programs vary in the extent to which the firms use innovative incentives. The structured context of the OEO project should, therefore, provide considerably more information than is presently available about different technical approaches to performance contracting. Even so, it is doubtful that the issue of preferred approaches will be resolved this year, if ever.

To judge by current programs, any LEA considering a program can choose from a wide and colorful assortment, ranging from cautiously testing the water to some quite novel type of approach. However, even the most novel programs use materials, machines, techniques, and theories that are more or less familiar to educators, at least in the educational literature.

Most programs embody explicit or implicit plans for later “turnkey” adoption of the LSC’s technology—more often implicit. At the moment, most LEA’s are adopting a wait-and-see attitude before making decisions about the future applications of the programs under way this year.

Contractor selection.—Source-selection procedures can be classified by the point in the development of a program when the contractor was selected; they can also be classified by whether selections are sole-source or competitive. A sole-source procedure is almost always conducted early so that the contractor can assist in program development. For competitive bidding, the program must be well structured before a request for proposals can be developed.

Two contractor selection processes are currently in use today in educational performance contracting. In the first approach, the LEA selects a contractor and the two work jointly to develop a program. The basis for contractor selection is seldom made public since it is regarded as an internal LEA matter.

The second procedure is an adaptation of the Federal Government’s two-stage formal advertising method. This procedure is strongly advocated by many, particularly by Charles Blaschke of Education Turnkey Systems, Inc. The basic concept is that the LEA develops a set of program specifications before it contacts any LSC’s. It then sends out a request for proposal (RFP) to several LSC’s, each of which responds with a two-part proposal. The first part details his technical approach to meeting the specifications and his justification for the specific program he proposes. The second part contains his price bid. The LEA first evaluates the technical proposals and then opens the price bids. The contractor judged to have made the most favorable total offer receives the contract.

Educational Turnkey News cites five arguments in favor of competitive bidding. They merit extensive verbatim quotation:

- First, school systems are required by law to accept competitive bids for pencils and papers. Where the very control over and modification of child behavior by outside groups is at issue, should there not be an equal concern for quality assurances and accountability?
- Second, competitive bidding, through the use of “requests for proposals (RFPs) to qualified bidders, will establish cost-effective standards. A company is forced to submit a proposal, with the cost and level of guarantee reflecting their confidence in their learning system. An RFP also forces them to be competitive, based on their best estimation of the nearest competitor’s bid.
- Third, in most instances, when a school system decides to embark upon a performance contract approach, it will be searching for innovative approaches to its existing

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educational problems. Competitive bidding encourages companies to seek out the best approaches and best people in the country to focus in on the particular problem.

- Fourth, the heart of the performance contract approach is the RFP, which does not prescribe how the contractor should do the job, but rather what performance specifications in terms of student achievement are expected of the firm. However, if the school system decides to go “sole source” (as opposed to competitive bidding) to a particular firm, then there are no standards to measure the contractor’s proposals other than the potential effectiveness of the methodology. Most likely the guarantees will be less than the firm’s private expectation which will be based on its actual previous experience or knowledge of validation results. With proposals from several corporations, however, the approach taken by the contractor is secondary to the levels of guarantee and costs, which can be judged in light of alternative proposals.

- Finally, choice among competitive proposals, stated in terms of levels of guarantee and costs, allows lay school board members to allocate program resources on a rational basis.

Unfortunately, the logic for sole-source contracting has not been spelled out so articulately. The basic argument, however, is simple. Performance contracting programs, at least at this stage of the development of the concept, are not like paper and pencils. They are not standardized items. Since the buyer cannot lay down rigorous and detailed specifications, he cannot select among respondents on the single basis of price with full expectation that the amount and quality of the delivery will be as specified.

Instead, the buyer is purchasing a development effort for a product with only dimly perceived characteristics. No one is completely sure what the direct impacts of any project will be or what the side effects (favorable or unfavorable) will be. Consequently, so the argument goes, a performance contracting program is really a partnership in a joint development effort by the LEA and LSC. Partners are not necessarily best chosen in the same way one might purchase light bulbs or school desks. The best recourse may be to select a contractor in whom one has confidence; perhaps the confidence is due to subjective judgments about the potential effectiveness of his methodology. Then the two can jointly develop a program without the constraints involved in RFP specifications and competitive price quotations.

Table 5 indicates the source selection procedures utilized by a number of LEA’s. Competitive selections were in all cases based on an evaluation of the bidder’s proposed results, his technological approach, and his pricing arrangements. Most LEA’s in the table engaged in sole-source selections. (Almost half the contractors were selected through competitive procedures, however, as the OEO chose six contractors and Texarkana and Dallas two each). Organizing a structured, competitive source selection is a difficult and expensive operation. This is reflected in the fact that only those LEA’s that had an appropriate amount of management support have thus far utilized competitive procedures. As these procedures become better known in the educational community, however, this trend may change.

An attractive variation on conventional source-selection procedures is being used in

Table 5.--Source selection of learning system contractors

<table>
<thead>
<tr>
<th>Educational Agency</th>
<th>Selection Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>[S.S.--sole source selection; Adv.--a competitive selection.]</td>
<td></td>
</tr>
<tr>
<td>Boston, Mass.</td>
<td>S.S.</td>
</tr>
<tr>
<td>Colorado, State of</td>
<td>S.S.</td>
</tr>
<tr>
<td>Dallas, Texas</td>
<td>Adv.</td>
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<td>Flint, Mich.</td>
<td>S.S.</td>
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<td>Gary, Ind.</td>
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<td>Gilroy, Calif.</td>
<td>S.S.</td>
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<tr>
<td>Grand Rapids, Mich.</td>
<td>S.S.</td>
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<tr>
<td>Greenville, S.C.</td>
<td>S.S.</td>
</tr>
<tr>
<td>Oakland, Calif.</td>
<td>S.S.</td>
</tr>
<tr>
<td>OEO Programs</td>
<td>Adv.</td>
</tr>
<tr>
<td>Philadelphia, Pa.</td>
<td>S.S.</td>
</tr>
<tr>
<td>Portland, Oreg.</td>
<td>S.S.</td>
</tr>
<tr>
<td>Providence, R.I.</td>
<td>Adv.</td>
</tr>
<tr>
<td>Savannah, Ga.</td>
<td>S.S.</td>
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<tr>
<td>Texarkana, Texas</td>
<td>Adv.</td>
</tr>
<tr>
<td>Virginia, State of</td>
<td>Adv.</td>
</tr>
</tbody>
</table>
San Diego, California. EDL (Coast-Visual) has a contract for a reading program in the San Diego School District. This contract is presently a (fixed) resource contract but will supposedly be converted at some time in the future into a performance contract for results. The contract states the intention of the two parties to write a future performance contract based on the results of this year's resource contract.

Program risks

Two types of uncertainties are associated with a performance contracting program. First, there is the uncertainty directly associated with the program outcome—how much the students will learn and, consequently, the payment to the contractor. Second, there is the uncertainty of "side effects" from the contract. At present, little is known about either type of risk and few general statements can be made.

Arrangements providing for lower prices for lower levels of achievement remove only a portion of the outcome risk from the LEA. Seldom if ever will an LEA be able to offset the failure of students to progress satisfactorily in a subject by pointing out that the contractor received little or no payment. (This is the major reason that considerable care must be exercised in evaluating "competitive" bids based upon different learning systems. Where the final payment is a variable based on an uncertain outcome, comparison of two price bids is difficult.)

Most performance contracting programs for student achievement involve some novel innovative educational technology, technique, or method or combination thereof. If they did not, it is doubtful that the LEA would have considered contracting for results. These "learning systems" have all been tested and demonstrated to some extent, but most are now being utilized in significantly different settings from those in which they were tested. Their effectiveness in the new settings is uncertain; each LEA must make its own estimates of the probable effectiveness of each system.

Program Costs and Contract Prices

Tables 1 through 4 contain information on "maximum payment," but this information is of limited value. Undoubtedly, some performance contracting programs are substantially more expensive than others, but valid comparative data cannot be derived from the tables. In fact, the term "payment" can be misleading. Payments definitely are not comparable between programs. First of all, since these are performance contracting programs, payments cannot be determined until the end of the contractual period. A maximum payment figure is useful information only in that it sets an upper limit on the LEA's liability to the contractor for that contract. Furthermore, the "maximum price" does not always represent the total program payment that the contractor may receive, because in some cases the contractors are also selling consulting services, equipment, and materials to the LEA under separate contracts. Finally, the "maximum payments" are almost never representative of the LEA's program costs.

For analysis, program costs may be classified in many ways. Table 6 gives one possible breakdown. The primary distinction in this classification is between acquisition (or start-up) costs, which are applicable to the entire life of the program, and operating costs, which are incurred on an annual or a monthly basis. Even if exactly the same program were set up in two districts, their program costs would probably differ as both salaries and resource prices differ from place to place. In comparing performance contracting programs the situation is much more complex than this, however.

| Table 6.—Cost structure for a performance contracting program |
|---|---|
| **Acquisition cost** | **Operational cost** |
| Program implementation | Salaries |
| Equipment | Teachers |
| Program-related | Paraprofessionals |
| Student-related | Specialists |
| Materials | Other |
| Program-related | Inservice training |
| Student-related | Materials and supplies |
| Preservice training | Program-related |
| Facilities (space) | Student-related |
| Installation | Facilities O&M |
| | Contracted services |
| | Media services |
| | Transportation |
Performance contracting programs differ widely in their educational technologies. These differences lead to various combinations of salaries, facilities, equipment, materials, and training costs among programs, and, more importantly for cost comparisons, to different mixes of acquisition and operating costs. Some programs are capital-intensive and have relatively high initial costs. Other programs require nominal capital charges but utilize large amounts of consumable materials. These programs may require lesser expenditures in the first year of operation, but over a 5- or 10-year period may be more expensive than the capital-intensive programs.

The allocation of costs between the LEA and the LSC also varies greatly. It is possible that in some programs all costs are the responsibility of the contractor and are covered by his performance contract; however, it is, not possible to single out any programs where this is the case because few of the LEA's keep a reliable compilation of program costs, and what information there is has not been publicized. It is more feasible to discuss the cost categories that are known to be borne by the contractors and to assume that the others are borne by the schools.

In those contracts that have been let to date directly with teacher groups, few costs are covered—often not even the basic salaries of the teachers. Some teaching materials are covered and, in the OEO contracts, some monies for students incentives. The major portion of the contract price, however, is made up of incentives for the teachers.

In the other contracts the reverse is true. The majority of the contract price represents costs assumed by the contractor, and a small portion represents the incentives. These contracts, however, vary enormously in their cost coverages.

In some programs the contractor is responsible for very few cost elements. In Philadelphia the BRL contract is only for materials and some counseling and training, as was the Open Court Program in Portland. The EDL contract in Flint, as well as the completed EDL contract in Portland, is for equipment, materials, and consulting. In all of these cases the contractors are simply supplying educational materials to the districts and training the districts' teachers in the use of materials. In each case, however, the price for the materials is contingent upon the achievement of the students in the programs.

Teachers' salaries are the major item in most educational programs. Local teachers are utilized in most programs, and they often remain on the LEA payroll to simplify fringe benefits and tenure provisions. A few programs have used outside teachers. In the early performance contracts (Texarkana in 1969-70, and most of the OEO contracts) the contractors assumed the salary costs. This led to problems associated with retirement funds and tenure considerations as well as professional responsibilities, however, and schools are now paying salaries in most of the other programs.

Some programs are conducted in elaborately restructured "classrooms"; the construction or conversion costs are born in some cases by the schools and in others by the contractors. Equipment is sometimes purchased by the school, and sometimes its "rent" is covered by the performance contract. In some programs, consumable materials are sold to the school and are not covered by the contract.

Program Support

Some school districts rely entirely on their own capabilities in setting up and conducting a performance contracting program with an LSC. Others call on other public or private organizations for assistance. There is considerable
difference of opinion about the preferred practice. One position is that, in addition to the contract with the LSC, school districts are generally well advised to let some additional support contracts, including a contract with a management support group and another with an independent educational auditor. Many other knowledgeable officials, including many LEA officials, feel that such activities are best conducted by regular employees of the school systems.

Those advocating the use of an outside management support group see it as having three functions. The first is to provide assistance for both program and contract planning and development. Such activities as analyzing needs, developing the school district's Request for Proposal (RFP), and developing lists of bidders to be solicited are cited as activities in which a support firm can be extremely valuable. The second function is to provide ongoing management assistance during the program. The third is to act as an "honest broker" between the LSC and the LEA and resolve problems, deal with complaints, and weigh proposals for changes that arise during the program.

There is definitional confusion about the roles of "independent evaluator" and "independent auditor." Some authorities view the auditor's function as helping the LEA to prepare an evaluation plan for the evaluator to carry out, and at the end of the program certifying to the LEA that the evaluation has been properly performed. In some programs—for example, in Texarkana—the audit function has been provided by a firm with no other program responsibilities. In others, such as the OEO programs, the management support group also operates as the auditor. The evaluator's function, if one follows this semantic usage, is to carry out the audit plan and certify, to the LEA and the contractor, the gains achieved in the program and therefore the payment required to discharge the contract. Other educational authorities do not distinguish between evaluation and educational audit, but regard them as a single function.

Neither of these views has gained wide acceptance, probably because neither has ever been completely spelled out in unambiguous terms. A third view has received little attention but is both logically and operationally superior to the other two. This view identifies two distinct evaluations, one mandatory and one recommended, to be performed for every performance contracting program. The first is a contract evaluation that determines whether the LEA and LSC have performed their respective duties under the terms of the contract, and calculates the amount of the contractual payment. This evaluation must be performed. Secondly, there may be a program evaluation concerned with the educational program. It would cover both the contracted and uncontracted portions of the program, and planning as well as execution.

At the present time, "independent evaluators" or "internal evaluators" are usually concerned with contract evaluation, and "independent educational auditors" are usually concerned with program evaluation, but confusion prevails concerning both titles and functions. As the accountability and performance contracting movements progress, however, it is highly likely that the terminology of "contract evaluator" and "program evaluator" will gain wide acceptance.

Regardless of definition, in many programs management support, contract evaluation, and program evaluation are being provided by one or more private firms. Table 7 lists the support contractors for our sample of programs. Advocates of support contractors essentially see three virtues in their use. The first is good contracting practice. Gains are determined by some agency not directly affected by the contract between the LSC and the LEA. Also, supporters of this procedure point out that few school districts have much experience with this type of contracting and lack the expertise that support firms can provide.

A second alleged benefit is political credibility. The use of specialized management firms is believed to demonstrate the seriousness of the LEA's desire to implement modern management
methods. The use of independent evaluators and educational auditors is supposed to demonstrate the LEA’s willingness to be held accountable and have its performance objectively assessed.

The third benefit is a more long-run advantage. The outside participants, it is hoped, will furnish the impetus for development and implementation of new programs, new procedures, knowledge about input-output relationships, and the like.

Those who favor performing most of these functions in-house cite several considerations. First, support is expensive. The amounts budgeted for support in most programs are small when one thinks of the cost of a man-month of effort from an educational consultant. Nonetheless, despite the modest amounts spent (and therefore the modest amount of professional time that the support firms can provide), use of contract support services requires funds that could be spent either on the learning system contract or in developing in-house personnel. Second, it is sometimes argued that school district personnel need direct experience with these programs in order to develop basic capability.

A third consideration is always inherent in the use of contract support in any context. This danger might be called the “let George do it” syndrome. It is always easy for an executive faced with a hard problem or a complex task to turn the matter over to an outside firm and dismiss it from his mind. One danger here is that the required interaction between the support group and operating personnel will not come about. Also, the responsible decisionmakers will not be in a position to provide guidance to or understand the activities of the support firms. Improperly used, outside support can cause a project to become sealed off from the parent system, thereby greatly increasing the possibility that the system will reject its results.

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Table 7.—Program Support Contracts

<table>
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<tr>
<th>Educational agency</th>
<th>Management support</th>
<th>External evaluator</th>
<th>Educational auditor</th>
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<tbody>
<tr>
<td>Boston, Mass.</td>
<td>Heuristics, Inc.</td>
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<td>G.C.S.</td>
<td>CURE</td>
<td>E.T.S.</td>
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**NOTE:**
- G.C.S.—Research Council of the Great City Schools
- EPIC—EPIC Diversified Systems Corp.
- CURE—Center for Urban Redevelopment in Education
- E.T.S.—Educational Testing Service
- TKEY—Education Turnkey Systems, Inc.
- ESC—Educational Service Center, Magnolia, Ark.
Performance contracting was first applied to the education of public school students late in 1969. The publicity associated with the initial program has inspired widespread interest in and experimentation with the method. In typical applications of this method, a local educational agency (LEA) contracts with a learning systems contractor (LSC) for the education of a selected group of students, with the contract payment determined by the measured achievement of the students. Payment for services on the basis of student achievement and the involvement of private, profit-oriented firms in classroom activities have made performance contracting one of the most hotly debated innovations in American education.

Three points merit particular emphasis. First, there is a large number of operational programs at the present time, but they are all experimental and most are narrow in scope. Second, these programs are so diverse that statements and judgments concerning one program may be completely irrelevant with respect to the others. Third, there is a great need for broad evaluations of these programs.

Programs can differ in a variety of ways: in the characteristics of the educational programs, the portions of the programs under contract, the terms of the contracts, the characteristics of the contractors, and the contractors’ learning programs.

The major similarity among the programs is that each involves a reading program, usually remedial. Many also include mathematics, but only three cover other subjects. Behavioral Research Laboratories (BRL) is teaching the entire curriculum for one elementary school in Gary, Indiana, but their payment will be based only on the students’ achievement in reading and mathematics. Jacksonville, Florida, has let a contract for the basic curriculum for a first-grade class, and in Dallas some vocational skills are being taught under contract.

Performance contracting for student achievement requires that the LEA be able to specify acceptable levels of contractor performance, and therefore that objective measures of performance be devised. At present, most educators believe that such specification and measurement is possible only for such basic subjects as reading and mathematics, and many educators are dissatisfied with present testing instruments even for these subjects. The expansion of performance contracting will probably depend heavily on the development of improved norm-referenced and criterion-referenced measures of achievement.

Since the prices for the different contracts vary widely, mostly because of differences in the amount of the educational program contracted out, no wholly valid comparisons among prices are possible. For example, in some programs the contractors are simply furnishing books or materials, while in others they are responsible for the entire range of classroom resources; and in some programs the teachers remain on the district payroll, while in others the contractors are responsible for teachers’ salaries.

The LSC’s are a heterogeneous group. They range from individual English teachers to subsidiaries of some of the Nation’s largest corporations. At present, however, most contractors are profit-oriented educational firms.

In most of the programs the contractors are directly involved in the classroom teaching and learning process. There are differences of opinion about whether this involvement will continue in the future, however, even among the private firms, most of which are basically developers and marketers of educational research and development. Some contractors view their classroom activities as a rapidly passing phase. Soon they hope to be only consultants assisting school districts as part of their regular programs. Other contractors question whether the current phase will pass so rapidly.

Curriculums and teaching techniques are disparate. While most programs are based on highly individualized instruction, approaches and techniques vary substantially. Some LSC’s use teaching machines extensively; others use no machines or, at most, simple cassette players. The majority fall somewhere between these two
extremes. Some programs emphasize extrinsic incentives; others rely exclusively on intrinsic motivation. Some stress the importance of changing the classroom environment. Some use new materials; others use only well-known materials. This heterogeneity should not be surprising, since performance contracting is not in itself a program but a method for attaining different types of objectives.

A school district can contract for goods and services in a variety of ways, and each contracting method has advantages and disadvantages. There are two basic types of contracts: contracts for resources and contracts for results. Each type may be further distinguished by whether it specifies a single acceptable outcome and a single acceptable payment, or a range of acceptable outcomes and payments. The latter type of contract is called a performance contract.

Four basic considerations are important in contract type selection: (1) the amount of risk inherent in the operation, (2) the relative technologies and management skills of the two parties to the contract, (3) institutional considerations, and (4) other intangible considerations. These considerations determine the most appropriate type of contract for a specific situation. It must be emphasized that there is no universally preferred type of contract. Performance contracts for results may be preferable in some situations, for example, but completely inappropriate in others.

The most important factor in determining which types of contracts may be used in a particular situation is the nature of the contractual outcome. Any contract for results requires that the product to be delivered must be capable of precise definition. Performance contracting has a more rigorous requirement: that the contractual object be objectively measurable over a range of acceptable levels.

The methods that may be used in choosing contractors also depend on the nature of the contractual outcome. Price competition requires that the contractual outcome (whether it is a resource or a result) must be precisely specified. If the outcome cannot be precisely specified, some form of nonprice competition or sole-source negotiation must be used.

Historically, the goals of education have been expressed in broad philosophical terms. The educational accountability movement is stimulating the formulation of more operational definitions of objectives. Objectives that are specified precisely and objectively enough to meet the requirements of internal educational accountability will serve equally well for educational contracting.

An often-encountered argument in favor of performance contracts is that private educational firms have an advantage over local school districts in the conduct of educational research and development, but have had no means for demonstrating their new products or methods in a setting that is persuasive to local school authorities. Performance contracting for student achievement provides such a means.

Legal considerations and the attitudes of such groups as teachers unions must be considered in evaluating the appropriateness of any contract for educational achievement. Legal requirements prohibiting publicly constituted bodies from contracting away their responsibilities require careful consideration in structuring educational performance contracts, but it does not appear that they will pose a major block to the broad application of performance contracting. In general, teachers unions on the local level have been critical but willing to go along with the experimental programs to see what they can accomplish. It is clear, however, that this tolerance will not last if such programs become a continuing and major educational activity. National groups such as the American Federation of Teachers have vigorously opposed performance contracting and are likely to continue their opposition to both the accountability movement and the movement toward contracting for educational achievement.

The real strength of performance contracting is its versatility—its potentiality for use in a wide variety of contexts. This implies, however, that all performance contracting programs should be evaluated with a very broad perspective. Faults will be discovered in each program, but the central task is to determine whether they represent
basic defects in the performance contracting concept. If program evaluations are thought of simply as contract evaluations—that is, if they focus solely on measured achievement gains and payments to contractors—much information will be lost. Every educational agency should conduct both a comprehensive program evaluation and a contract evaluation.

For the present, a performance contract can usually have only very limited objectives, since they must be stated very precisely. The contract typically encompasses only a portion of the educational program; every effort must be made to ensure that the objectives of the contract harmonize with overall program objectives.

Contract evaluations must be conducted to determine whether all obligations were fulfilled and to determine the payment due the contractor. This is a necessary step, but a further one is needed. The full value of a completed program can be determined only by weighing the contractor’s contributions to the school’s overall program objectives, and then fully evaluating the entire program. Evaluation is likely to prove the most difficult task in performance contracting.

CURRENT JOURNAL ARTICLES ON PERFORMANCE CONTRACTING

The following articles on performance contracting are indexed in the Current Index to Journals in Education (CIJE) of the ERIC system:

"Who will be Accountable for Accountability?" Educational Leadership, v. 28, n. 5, pp. 533-5, Feb. '71.


"Accountability: How Do We Measure Up?" Educational Technology, v. 11, n. 1, p. 31, Jan. '71.


At the present time reprints of articles indexed in CIJE are not available from a central source; however, information on availability of reprints can be obtained from the editor of CIJE.
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