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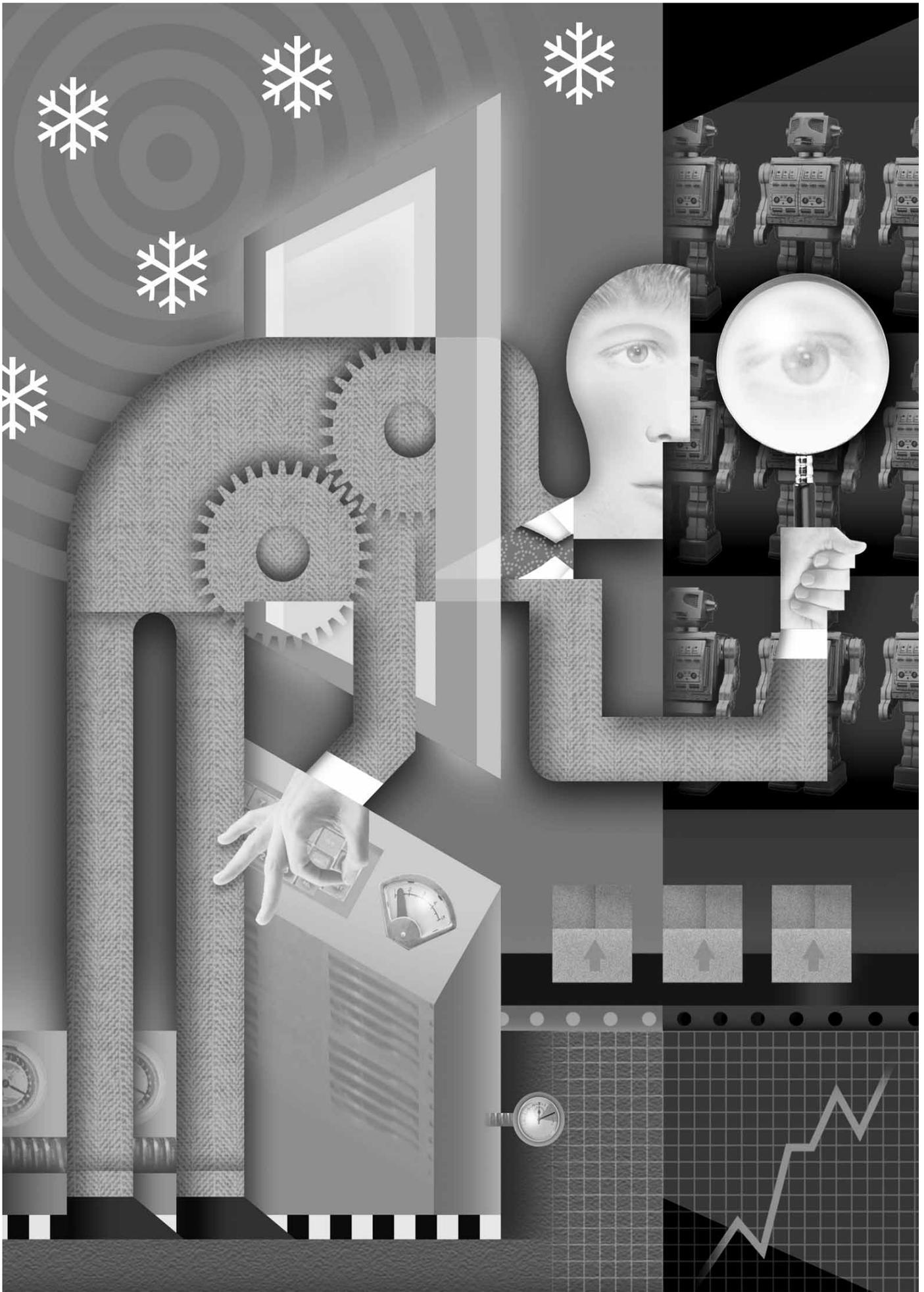
STANFORD SOCIAL INNOVATION *review*

More Bang for the Buck

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Three Productive Nonprofits

	JUMPSTART	TEACH FOR AMERICA	YEAR UP
Year founded	1993	1989	2000
Revenue (2005)	\$11.3 million	\$40.5 million	\$5.5 million
Mission	Working toward the day every child in America enters school prepared to succeed	To enlist our nation's most promising future leaders in the movement to eliminate educational inequality	In the future, every urban young adult will have access to the education, experiences, and guidance required to realize his or her true potential
Program description	Corps members establish one-to-one relationships with preschool students and work with families to help them incorporate language and literacy into the daily activities of their children	TFA recruits and trains college graduates and places them in two-year teaching roles in some of the country's highest-need schools	Urban young adults ages 18 to 24 engage in an intensive training program, focused on a combination of technical and professional skills, college credits, and a paid corporate apprenticeship
Output measure	Number of students	Number of teachers (as a proxy for the number of students)	Number of students
Outcome measure	Number of students with greater gains in school readiness than comparison group	Number of teachers whose students achieve significant gains	Number of students placed in livable-wage jobs
Average annual change in cost per outcome	-6% (2000-04)	-10% (2001-05)	-9% (2001-05)

When a consumer buys a tire, he or she typically takes into account not just the cost of the tire but also the number of miles it will travel. Technological advancements may increase the cost of each tire, but decrease the cost of each mile traveled on it – and the latter is the metric that matters most to the consumer. The tire company that focuses on cost per tire is likely to be bested by one that grasps the true *unit of value* to the consumer and focuses on tire cost per mile traveled.

This same concept of value applies to the work of nonprofits. It's not cost per output (such as a youth served) that provides a window into productivity, but rather cost per outcome (a youth who achieves the results targeted by the organization). Here's where things get more complicated for nonprofits, though. Although it's relatively easy to calculate tire cost per mile (i.e., the tire's total cost divided by the number of miles it will go), it's far harder to calculate dollars required for a nonprofit to achieve an outcome, for reasons we will explore below.

Let's back up and define some terms. *Outputs* are the amount of work a nonprofit does – in other words, the quantity of the programs or services it delivers. In the case of Year Up this would be the number of students participating in the program. *Outcomes*, in contrast, are the *results* of the nonprofit's work – in other words, the benefits for participants during or after their involvement with the organization. At Year Up this would be the number of graduating students placed in livable-wage jobs. Finally,

the *success rate* reflects the number of outputs that turn into outcomes – for example, the ratio of students in the program to those who go on to get jobs paying a livable wage.

As the equation below illustrates, there are two paths to increasing a nonprofit's productivity: reduce the costs of producing each output, or increase the number of outputs that turn into outcomes – in other words, increase the success rate. In practice, as these nonprofits show, organizations typically work on both facets of the equation.

Jumpstart improved its productivity by decreasing its cost

$$\frac{\text{Cost}}{\text{Output}} \times \frac{\text{Outputs}}{\text{Outcome}} = \frac{\text{Cost}}{\text{Outcome}}$$

per output while holding its success rate steady. Jumpstart's mission is to work toward the day when every child in America will enter school prepared to succeed. To this end, corps members work one-on-one with preschool students and their families to incorporate language and literacy into daily activities. The organization's output is the total number of students with whom corps members work, and its outcome is the number of students who achieve greater gains in school readiness than a comparison group.



level necessary to secure target student and company participation levels, thus ensuring that its cost per output remains low.

Measure Progress. All three organizations established performance measurement systems to give them timely feedback about their costs, outputs, and outcomes. Year Up, for example, has created a set of PowerPoint performance dashboards for reporting regularly on six critical areas of their work: recruiting and retaining talented staff, cultivating a solid student pipeline, teaching marketable skills, providing high-quality service to corporate partners, positioning students for ongoing success, and creating a sustainable program infrastructure. The management team then sets performance benchmarks and rates its progress against each benchmark.

Take the critical area “positioning students for ongoing success,” for example. Year Up breaks this area down into three metrics: average starting wage, graduate employment, and college attendance by class. The associated dashboard charts the data in these three subareas and then rates the performance of each relative to the benchmark goals, using a green, yellow, or red traffic light icon.⁶

Why Nonprofits Don’t Calculate Productivity

The three organizations in our study all tracked costs and measured outcomes. Yet none had brought its data together to calculate cost per outcome, even though all appreciated the value of this metric. One reason for this oversight is that as each organization accumulated experience, it refined its definition of a successful outcome, complicating the process of tracking the metric. Consider Jumpstart, which uses a tool called the “School Success Checklist” to assess its students’ language, literacy, initiative, and social skills. As Jumpstart learned more about its programs and participants, it changed the checklist. In the 2001-02 school year Jumpstart increased the number of items from 10 to 15, and in 2003 it revised the ratings and subscales for each item yet again. To participate in our study, Jumpstart staff had to dig back into its historical data and restate them in terms of its new school success checklist.⁷

Another challenge to tracking cost per outcome is the lag between the time when an organization incurs program costs and the time when it can measure outcomes. For example, Jumpstart cannot possibly know whether students have improved until the end of the school year. In contrast, the organization can readily calculate cost per output (specifically, cost per tutor hour), a more immediately useful measure that helps Jumpstart’s managers understand what is happening right now. As a result, the internal pressure to monitor costs naturally points people toward cost per output rather than cost per outcome.

The time lag between when an organization incurs costs and when it realizes outcomes is even more pronounced when it makes a large investment in its program or infrastructure, because these costs may all show up in one year. The benefits,

in contrast, may take years to appear. For example, Teach for America’s cost per outcome actually increased for several years while its investments were taking hold, only to decrease in the longer term.

Matching expenses to the outputs and outcomes of one specific cohort of youth is also difficult. For example, Teach for America’s costs for a given fiscal year include the cost to support teachers who are already in the classroom and the costs to recruit and train new teachers, who will not teach until the following year. To calculate Teach for America’s cost per outcome for this study, we had to break down and reassemble its cost, output, and outcome data.

Productivity Blocks

Without broader-based research, we cannot say how widespread reductions in cost per outcome are in the nonprofit sector. Nevertheless, on the basis of Bridgespan’s work over the years with more than 100 nonprofits, we suspect that nonprofits do not regularly or fully realize such reductions. The reasons are many, but several additional barriers (besides the ones already mentioned) stand out in particular.

One of the impediments to achieving increased productivity is the lack of funding for nonprogram expenses. Building information systems to track outputs, outcomes, and costs requires money. The staff time needed to analyze the data is also not cheap. Many nonprofits simply do not have the money to make these investments, and foundations and other donors are often unwilling to provide the funding. As a result, many nonprofits have only a rudimentary understanding of what their true costs per outcome and output are.

A second reason why nonprofits do not pay more attention to productivity is that they face little pressure to do so. Some of the organizations in our study cited an internal desire to decrease their cost per outcome, but none of them mentioned any external pressure to do so. Businesses face unrelenting external pressure from customers and competitors to reduce prices while maintaining quality. Companies are also under pressure from investors to increase their earnings per share, which they can often achieve by increasing productivity.

When funders and other stakeholders do focus on nonprofits’ costs, they most often scrutinize cost per output, not cost per outcome. Year Up, for example, usually reports the cost per participating student, not the cost per student placed in a living-wage job. Similarly, Teach for America usually reports the cost to recruit, train, and place a teacher, not the cost to recruit, train, and place a *successful* teacher. Some funders even provide a fixed amount of funding per output. This focus on cost per output can be counterproductive if it is not married to a focus on maintaining or improving outcomes.

The difficulty of achieving scale presents another challenge. In the for-profit sector, building economies of scale is a well-understood and oft-practiced way to increase efficiency. Although

Our Research Methods

We addressed two general questions in our study: Have any nonprofits maintained, or even improved, their outcomes while reducing costs? If so, how did they do it?

We first identified nonprofits with a reputation for achieving results and managing costs. To keep the analysis simple, we focused on single-program, direct-service nonprofits in the fields of youth development and education. Three organizations emerged from our preliminary investigations – Jumpstart, Teach for America, and Year Up. For each organization we collected and analyzed a minimum of five years worth of cost, output, and outcome data. We also conducted detailed interviews with the organization’s executive director, chief financial officer, director of research and evaluation, and other key people. Finally, we compared our findings to secondary research on efficiency studies in the public sector and in for-profit service companies.

In light of the composition and small size of our sample and the preliminary nature of the research, our findings are, at best, suggestive. Nevertheless, they do shed light on the central question of whether nonprofits can maintain, or even improve, the quality of their outcomes while reducing costs. –A.N. & R.S.

scale does not automatically decrease cost per outcome, it often allows an organization to spread fixed costs over more activities and to accumulate experience faster. And so growth can help an organization reduce costs and learn more quickly. The three organizations we studied are larger than average, but none is among the largest in the sector. Given the fragmented nature of the nonprofit sector, with the vast majority of organizations having annual budgets under \$1 million, it may be hard for the average nonprofit to achieve economies of scale.⁸

Yet another barrier is the failure to sustain activities long enough to decrease their costs or improve their success rates. Foundations have a reputation for being more interested in supporting the next exciting idea than in continuing to support a proven idea or program. Accordingly, nonprofits that depend primarily on foundation support may find it difficult to sustain a given program – and therefore to accumulate the kind of experience that can lead to savings. The fact that two of the three organizations we studied received more funding from public sources than from foundations may not be entirely coincidental.⁹

Jumpstart, Teach for America, and Year Up all give real-world proof that maintaining quality while reducing cost is not only a theoretical goal but also a practical possibility. We hope that this research will inspire more nonprofits to track and manage their cost per outcome. We also hope that it will encourage more funders to shift their focus from cost per output to cost per outcome and to provide nonprofits with the long-term unrestricted support that will enable them to do the same.

We recognize that changing the rules of the funder-grantee game is never risk-free. Wrongly applied, external pressure on nonprofits to focus on cost per outcome could simply become yet another reporting burden on capacity-strapped organizations. Foundations may also be tempted to compare two organizations’ cost per outcome without taking into account important differences between them, such as the populations they serve or the kinds of overhead that they have to bear.¹⁰ Equally, it could lead nonprofits to shift their costs, to serve less needy populations, or to make unsustainable cost cuts.

Done right, however, reducing cost per outcome will lead to more bang for the nonprofit buck – a greater impact across the whole range of issues that nonprofits grapple with on society’s behalf. And impact, after all, is the true bottom line of nonprofit work. □

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1 Notable studies in public sector and for-profit service industries, besides those mentioned elsewhere in this article, include Vernon Altman, Marty Kaplan, and Ravi Vijayaraghavan, “The Challenge of Cutting Costs,” *Tele.com* (May 2003); Theodore Levitt, “The Industrialization of Service,” *Harvard Business Review* (September 1976); Theodore Levitt, “Marketing Intangible Products and Product Intangibles,” *Harvard Business Review* (May 1981); Brent Keltner, David Finegold, Geoff Mason, and Karin Wagner, “Market Segmentation Strategies and Service Sector Productivity,” *California Management Review* (Summer 1999); and Ashish Nanda, “Scale and Scope in Professional Service Firms,” Harvard Business School Publishing (April 2006).

2 Among studies illuminating effective cost management in the public sector is John Drew and Nina Bhatia, “Applying Lean Production to the Public Sector,” *The McKinsey Quarterly* (June 2006).

3 For further research on the value of introducing technology to transaction-level processes in a service organization, see Michael Van Biema and Bruce Greenwald, “Managing Our Way to Higher Service Productivity,” *Harvard Business Review* (July 1997).

4 For additional reading on spreading best practices in the service sector, see Theodore Levitt, “Production Line Approach to Service,” *Harvard Business Review* (September 1972).

5 The service-profit chain provides a comparable framework for understanding the link between employee satisfaction, profit, and growth. See James Heskett, Thomas Jones, Gary Loveman, W. Earl Sasser Jr., and Leonard Schlesinger, “Putting the Service-Profit Chain to Work,” *Harvard Business Review* (March/April 1994).

6 For further research on the measurable impact of using benchmarks to improve performance and reduce employee turnover, see Fred Reichheld and Christine Detrick, “Loyalty: A Prescription for Cutting Costs,” *Marketing Management* (September/October 2003).

7 For additional research discussing the challenges in integrating performance metrics that tie to the organization’s strategic goals, see Keith Leslie and Catherine Tilley, “Organizing for Effectiveness in the Public Sector,” *The McKinsey Quarterly* (2004).

8 For additional reading on economies of scale and the experience curve, see Pankaj Ghemawat, “Building Strategy on the Experience Curve,” *Harvard Business Review* (March/April 1985); and Bruce Henderson, “The Experience Curve Reviewed,” *Perspectives* (1973).

9 For a more complete discussion of funding sources, see William Foster and Gail Fine, “How Nonprofits Get Really Big,” *Stanford Social Innovation Review* (spring 2007).

10 System costs are the total costs required to achieve the target outcome. Teach for America, for example, does not pay the cost of its teachers’ salaries; these are covered by the school systems where its teachers serve.