

Pay for Success Development in the U.S.: Feasible or Failing to Launch?

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Abstract

Social Impact Bonds, or Pay for Success (PFS) as known in the U.S., have attracted inordinate attention as a novel strategy for financing and providing preventative services to our most vulnerable populations. We undertake an exploratory, qualitative analysis of the Preschool PFS feasibility pilot grant applications and projects initiated by the U.S. Department of Education to encourage state and local exploration of PFS for implementing high-quality preschool programs. Drawing on the public administration evidence base that informs PFS design, we examine the feasibility pilot features and investigate why grant applicants saw PFS as a promising strategy for achieving their preschool program goals. We also uncover challenges encountered, lessons learned, and the perceived viability of fully executed PFS preschool programs. We find that few projects are advancing toward formal PFS arrangements, with many struggling to overcome constrained capacities, structural and political barriers, and inherent incentives to minimize risk and loss

Evidence for Practice

Government actors play a key role in making Pay for Success (PFS) contracts viable and carry the primary responsibility to ensure that these public-private partnerships are politically accountable to the public.

Most of preschool PFS feasibility pilot projects funded by the U.S. Department of Education were not advancing to PFS contract arrangements due to capacity constraints, difficulties in financial modeling and getting investors and payors on board, and other complexities in negotiating multi-year contracts.

Even if PFS pilot efforts do not progress to full-scale projects, important capacities are being built up (and should continue to be supported with federal funding) for more effectively serving vulnerable populations through public-private partnerships and for tracking longer-term outcomes.

A greater commitment is needed on the part of PFS partners to ensure that impact evaluations undertaken to assess project returns and determine payments for outcomes will be methodologically rigorous and based on outcomes that are sufficiently long-term and cannot be easily “gamed.”

Introduction

Social Impact Bonds (SIBs) have attracted outsized attention as a novel, “nothing to lose strategy” for addressing some of our most “intractable social challenges” (Brady, 2016; Gustafsson-Wright et al., 2015). Although characterizations of SIBs as a social investment tool are not uniform in the literature, they are typically distinguished by: (1) their focus on preventative-oriented programs that are expected to have long-term payoffs; (2) performance-based contractual mechanisms for financing that pay only for specified program outcomes when attained; and (3) a configuration of partners that include the government, private sector investor(s), an intermediary that manages the arrangement, an independent evaluator, and the program implementer(s) (Arena et al., 2016; GAO, 2015; Warner, 2013). The first official SIB pilot was initiated in the United Kingdom (UK) in 2010, and some have pointed to the global recession as a catalyst for the emergence of SIBs (Williams, 2018). Indeed, Roy et al. (2017) describe SIBs as the “archetypal ‘solution looking for a problem’,” in that as governments were scaling back social welfare expenditures, SIBs presented an opportunity as a no- or low-risk instrument for financing and providing beneficial services to vulnerable populations.

Many SIBs, or Pay for Success (PFS) initiatives as they are more widely known in the U.S., are still in early, “feasibility” stages of development. The Social Innovation Fund, a program of the federal Corporation for National and Community Service (authorized by the Edward M. Kennedy Serve America Act in 2009), invests in evidence-based programs and interventions at state and local levels to find “new ways to solve old problems that are faster, cost-effective, data-driven and lead to better results,” some of which have progressed to PFS projects (see <https://www.nationalservice.gov/programs/social-innovation-fund>). In January 2012, Massachusetts was the first U.S. government entity to pass legislation authorizing funds for PFS initiatives, with the stated objective of contracting to improve government outcomes and

lower the costs of services through public-private PFS partnerships (Mass. Gen. Laws ch. 10, § 35VV). By the spring of 2017, a total of eight states had enacted some form of PFS legislation, although as Curran (2017) explained, the structure and components of legislation vary considerably, such that there is no “typical PFS” model guiding the contractual arrangements and funding mechanisms as they evolve. This contrasts notably with a more centralized approach to SIB commissioning in the UK, where a cabinet-level office provides a range of tools and resources for SIB project development, including a SIB contract template, a unit-cost database, and cost-benefit analysis guidance, and fund managers and advisory firms provide technical assistance to government entities in assessing feasibility and implementing SIB projects and contracts. In 2016, the U.S. Department of Education allocated funds for PFS feasibility studies, and in February 2018, four years after it was first proposed, the U.S. Congress passed federal legislation, the Social Impact Partnerships to Pay for Results Act (SIPPR), that provides \$100 million in federal funding to support PFS partnerships, feasibility studies, projects and evaluations in a more integrated approach to guiding PFS efforts in the U.S.

With a relatively small number of fully launched PFS programs and even fewer that have advanced to the point where outcomes are assessed, the knowledge base on SIBs/PFS and their effectiveness is still primarily conceptual and descriptive (Curran, 2017; Maier & Meyer, 2017). Yet by examining the components and mechanisms of PFS arrangements as they are being structured and operationalized in feasibility studies and emerging programs, there is considerable learning and insights to be reaped. Furthermore, many core features of PFS and the motivations underlying their incorporation are not as novel as the hype around these new tools for government service provision would suggest (Warner, 2013). In fact, many challenges that are

arising as feasibility studies advance have been the subject of substantial theoretical and empirical investigation in the performance-based contracting and pay for results literature.

We accordingly undertake an exploratory, qualitative analysis of the Preschool PFS feasibility pilot grant applications (funded and unfunded) and studies that were launched by the U.S. Department of Education (DOE) in the 2016 Fiscal Year. The purpose of the feasibility pilot grants, awarded to eight entities—ranging from \$335,000-\$397,000 (totaling approximately \$3 million)—was to encourage state and local exploration of whether PFS is a viable and potentially effective strategy for implementing or expanding high-quality preschool programs. We received 20 applications that were submitted to the U.S. DOE, along with the reviewer ratings and comments, and we conducted interviews with 12 applicants (5 of 8 awardees, and 7 of 12 non-awardees) approximately 18 months following the funding award decisions. The objectives of this study are threefold: (1) to identify the proposed feasibility pilot features that the DOE and applicants saw as advantageous and critical to the success of PFS; (2) to understand from the perspective of grant applicants why they saw PFS as a promising strategy for achieving their short- and long-term preschool program goals, and (3) to assess the status of the feasibility pilots, as well as the preschool program initiatives in sites that were not funded, and uncover challenges encountered, lessons learned, and perceived viability of fully executed PFS preschool programs in the U.S.

The following section begins by describing the basic SIB/PFS model and framing the launch of PFS and preschool feasibility pilots in the context of the broader literature on public management reforms and pay for performance initiatives, focusing on the comparable features of PFS and past reform efforts. Next, we describe the data used in this study—including instrumentation developed to collect original data and archival data made available by the U.S.

DOE—as well as the qualitative methods employed in coding and analyzing the data and their limitations. We then turn to our analysis that examines the proposed preschool PFS pilot features and U.S. DOE ratings of them to illuminate what elements were viewed as critical to PFS feasibility, pulling into this discussion the perspectives of grant applicants and their understanding of the strengths, weaknesses and potential of the PFS model for achieving their program goals. Lastly, we draw together the insights and findings from the application analyses and interviews on the current status of the preschool programs and feasibility pilots to consider the viability of emerging preschool PFS models, and we conclude with a discussion of key lessons pertinent to governments and their partners heading down the PFS path.

How Prior Research and Experience Inform Preschool PFS Efforts

PFS basics and origins

SIBs/PFS are a financing mechanism designed to reduce the risk to government of paying for programs that do not produce public benefits. A private investor provides money up-front to finance the rollout or expansion of the public program, and the government agency (or public payor) is required to repay the investor *only if* specified (contracted) outcomes are achieved. Governments and their public-private partners work together to implement research-based, preventative interventions and to define specific, measurable *longer-term* outcomes of the programs on which the terms of repayment to the investor are based. Ideally, a rigorous evaluation is conducted to establish a causal link between the intervention and measured outcomes and to monetize the value of the program impacts. An intermediary serves as the arbiter of the contractual arrangement and manages the transfer of funds from the public payor to the private investor if it is determined that the outcomes are met (see Figure 1).

While the roles of the private investor in providing gateway funding to launch programs and the intermediary as a financial broker between the public and private partners are key innovations of the SIB/PFS design, other core components shown in Figure 1—including public-private collaborations in services delivery, performance-based contracting, and evaluation and accountability outcomes—have been features of governance and vigorously studied in public and business administration literatures for years. In fact, over 40 years ago, Guttman and Willner (1976: xii) called attention to dramatic new ways the U.S. government was managing its responsibilities and accomplishing its goals through an “invisible bureaucracy” of private, for-profit and nonprofit firms that were increasingly contracted to “suggest, shape, and even implement much governmental policy.” The ensuing New Public Management (NPM) reforms focused on changing organizational and individual incentives in ways intended to mimic the private sector and reorient toward a pay-for-results culture (Moynihan and Pandey, 2005). Christopher Hood (1991:4-5) described NPM as “a set of broadly similar administrative doctrines” that set out to bring about a more “business-like” government through the development of new public-private partnerships; the devolution and contracting out of public service responsibilities to local “quasi-public” and private partners and networks of organizations; and expectations for more responsive and accountable public services delivery. Tracing the origins of NPM back to Jeremy Bentham’s writings of the late 18th and 19th centuries, Hood and Jackson (1991) argued that it was the interdependence of these elements that was key to the novelty of NPM and its evolution toward more highly developed, formal systems of accountability with a focus on outcomes produced.

Insights from public-private, pay for results and performance-based contracting initiatives

Warner (2013:304-6) has similarly suggested about SIBs/PFS that it may be in combining philanthropy and performance management with venture capital and social program finance that we have founded an “innovative new mix” for public services delivery. She argues that the reliance of current SIB/PFS projects on “the contract and performance management scheme to cover all aspects of governmental interest in the project” ignores complexities of public sector contracting and performance management that are well-versed in the public administration literature. In a synthesis of theoretical and empirical literature on pay for performance and performance-based contracting, Heinrich and Marschke (2010) pointed out the significant costs and capacity demands associated with developing and implementing accurate and reliable performance measures and performance-based contracts that align diverse public and private interests and reflect the complicated nature and “technology” of public programs. This, they argued, has led many public sector arrangements to rely on simpler contracting schemes with incentives based on highly imperfect or incomplete measures of primarily shorter-term performance goals. Williams (2018), in fact, suggests that many SIB intermediaries are already pulling back from measuring impacts and recommending outcomes-based evaluations. Moreover, research has consistently shown that shorter-term performance outcome measures are often loosely or sometimes even negatively correlated with longer-term program goals and impacts (Barnow, 2000; Heckman et al., 2002; Schochet et al., 2006). Thus, if an intended advance of SIB/PFS arrangements is to reorient the public sector’s focus toward future gains (Lantz et al., 2018) and to pay for *impacts* (as made explicit in the recent U.S. legislation), then SIB/PFS designers should be wary of compromising with shorter-term outcome measures or erring in assuming their positive correlation with longer-term impacts.

Indeed, we have neglected lessons from past research and experience showing that rather than “hollowing out” the role of public managers (Rhodes, 1994), introducing new contractual structures that are technically and operationally complex—even if managed by external partners or intermediaries—intensifies the need for strong government management capacity (Kettl, 1993; Romzek and Johnston, 2002; Hefetz and Warner, 2004). Furthermore, in designing and implementing performance management reforms, we have attended more to their formal structures and less to informal aspects of organization that are critical to their implementation, such as culture, values and “craft” or “skilled practice” (Hill and Lynn, 2009; Hood and Peters, 2004). In a recent synthesis of the literature on SIBs, Fraser et al. (2018) identified competing public and private values as a major, cross-cutting theme that poses challenges in implementing SIBs. Concerns about the incompatibility of the “logics and normative assumptions of the private financial services sector” (p. 8) with values traditionally held in the public domain (e.g., equity, justice, representation, etc.) have long been a subject of public and scholarly debate, particularly concerning the role of private financial interests and profits in social services delivery (Salamon, 1989). In welfare services delivery in Wisconsin, for example, private providers were allowed to earn profits in delivering public welfare services, both to encourage them to bid in operating the program (an argument comparable to that made for investors in SIBs) and ostensibly to reward them for innovations and efficiencies achieved in service delivery (Heinrich and Choi, 2007). When private contractors underspent and realized large profits, concerns were raised that the contract terms may have encouraged the provision of fewer services to keep costs down (Wisconsin Legislative Audit Bureau, 1999). As Tse and Warner (2018:2-3) found in their study of early childhood education PFS projects, the balance of power across public and private sector

actors matters importantly for the values that are ultimately prioritized in these contractual arrangements, as well as what the public gets and pays for in services delivery.

As PFS arrangements develop and unfold over a period of years, it is also important to consider the dynamic aspects of contracting and performance management (Heinrich and Marschke, 2010). That is, even if the government and its private sector partners have designed contractual and performance management arrangements (PFS or other) that initially reflect shrewd attention to these details, over time their effectiveness may decline as problems emerge due to the inability to fully specify in advance relevant contingencies (e.g., changing economic circumstances, legislative mandates, etc.) or to avert gaming responses that frequently emerge when pressures to meet performance goals intensify (Bevan and Hood, 2006; Courty & Marschke, 2004; Heinrich, 2003; Tse & Warner, 2018). With PFS projects requiring an upstream investment to be repaid in a series of (financially complex) downstream payments over time (contingent on impacts being realized), the potential for unforeseen complications and deviations from plans may be even greater. Hence, while Arena et al. (2016) suggest that the wider adoption and success of SIBs has been slow because the instrument “has not found its dominant design yet—i.e., a stable set of characteristics related to the specific configuration, in terms of users, financial structure, public accounting arrangements, and scope of application”—the dynamics inherent in public sector contracting and performance management may preclude stability or even favor an instrument for funding social programs that is continually evolving and adaptable across contexts.

Preschool programs: a ripe prospect for PFS?

Preschool has been valued by the public as an important social intervention for decades, and rigorous cost-benefit analyses have identified social investment returns ranging from \$7 to

\$10 for every dollar invested in high-quality programs (i.e., Heckman et al., 2010; Karoly, 2016). The solid evidence base provides parties to a PFS arrangement with a more predictable, monetizable return on investment and the expectation that benefits will continue to accrue over the long-term (Karoly, 2016). Yet despite this strong support for public preschool as an effective strategy for promoting positive outcomes of children and reducing gaps in school readiness, program capacity is one of the greatest barriers to preschool enrollment (Bailey et al., 2017; Bassok, Gibbs, & Latham, 2018; Chaudry et al., 2017). After growing steadily in the early 2000s, state budgets for public preschool declined during the Great Recession and have not recovered (Haskins, 2017). Consequently, preschool providers often rely on the blending of federal, state and local funding streams and public-private partnerships to create a single classroom, which in some ways, makes preschool a ripe prospect for PFS (Chaudry & Datta, 2017; Hustedt & Barnett, 2011). That said, a recent qualitative study of efforts to expand early childhood services through SIBs in three cities argued that governments “walk a razor’s edge” in attempting to establish a cost structure that maximizes public investment over private investor profits (Tse & Warner, 2018).

In our exploration of the U.S. DOE’s preschool PFS initiative, we have observed considerable variability in the PFS partnerships and plans for executing a PFS, as well as steep learning curves on which many of the proposed projects were on a gradual and painstaking climb. Some of the projects have encountered what they see as insurmountable barriers to PFS success, while others have hit roadblocks or contingencies that they are still working to overcome. Many of the complex challenges the PFS partners face were foreshadowed in past experiences with public sector performance-based contracting and pay for performance systems. Indeed, this seems to be a consistent theme in the burgeoning SIBs/PFS literature: many

cautionary tales or narratives emerging in the implementation of these new social investment tools could have well been anticipated based on our substantial experience with many of the core elements of these instruments (Fraser et al., 2018). Below, after briefly describing our data and methods, we turn to consider the distinctive features of preschool PFS pilot projects underway in the U.S. and how they relate to what theory and experiences with SIB/PFS models to date suggest would be desirable in these arrangements.

Study Data and Methods of Analysis

The U.S. DOE released a request for proposals (closing date: October 6, 2016) with the stated goal to fund Preschool PFS feasibility pilots that would “determine if this model is an effective strategy to implement preschool programs that are high-quality and yield meaningful results” (U.S. Department of Education, 2016). The DOE made the 20 applications received publicly available (with some proprietary and budgetary information redacted). Appendix A lists the applicants (award recipients and those not funded), their locations, and whether they participated in interviews we conducted for this research; additional information on the funded applications is available at this link: <https://www2.ed.gov/programs/pfs/awards.html>. Each submitted proposal was independently rated by three reviewers, and we compiled all reviewer ratings and comments in a database. The following major proposal features (shown in greater detail in Appendix B) were scored: (1) the magnitude of need in the target population; (2) quality of the preschool program design; (3) quality of the existing or proposed PFS partnership; (4) quality of the work plan; (5) quality of the project leadership and team; (6) budget (adequacy of resources), and (7) competitive preference or absolute “priority” of the project based on potential outcome measures.

We also developed a coding scheme to extract other information from the feasibility study applications that SIB/PFS models and relevant literature indicated are critical components or building blocks of a successful PFS. These include the public-private partnership composition and setting; the program model and its design and quality elements; the target population, indicators of need and plans for serving them; program outcomes and the research design, and budgetary information (see Appendix C).

In addition, we developed a survey instrument, grounded in the SIB/PFS literature, to use in interviews with applicants (funded and unfunded). The IRB-approved copy of the instrument is shown in Appendix D and covers the following main topics: (1) motivation for pursuing a PFS arrangement; (2) the application process and perceived strengths and weaknesses of the application; (3) project partners; (3) the preschool program model; (4) the determination of project roles (if funded); (5) evidence used and project evaluation activities, and (6) prospects for success and plans for achieving the program goals. We reached out by phone and email to all 20 applicants, contacting the persons identified as the project leaders in the applications, to schedule interviews. We secured the participation of 12 applicants, five of eight who were awarded feasibility pilot grants, and seven of 12 who did not receive an award (see again Appendix A). Interviewees included executive program staff at the school (1), city (3), district (1), county (5), and state level (2). The timing of the interviews, June-August 2018, was approximately 18 months following the funding award decisions. The interviews typically lasted one hour and were taped and transcribed for analysis, although we do not name respondents in our presentation of the findings. Confidentiality was assured to encourage project leaders to reflect candidly on their experiences in implementing their preschool programs and pilot projects.

Our primary approach to the exploratory analysis involved triangulating information from the three main sources of qualitative data: the information extracted from the feasibility pilot applications, the reviewer ratings and comments on the feasibility pilot applications, and our notes and transcriptions from the interviews. For example, comparisons were made between more and less highly rated applications on different PFS project dimensions, as well as between funded and unfunded applications,¹ and we then drew on information from the interviews and applications to better understand the nature and context of the observed differences and to illuminate the varying features, plans and experiences of the projects. In analyzing the qualitative data, we used an inductive (grounded theory) approach to coding, following initial line-by-line coding procedures suggested by Charmaz (2014). A more detailed discussion of these steps, along with the final categories and sample focus codes, are shown in Appendix E.

Information was also drawn from the interviews and compared across projects with different features and plans to address our key study questions about how the observed PFS pilot features aligned with anticipated, distinctive components of the PFS financing model, what the grant applicants saw as promising about the PFS strategy for achieving their short- and long-term preschool program goals, and the prospects for success of the feasibility pilots or the alternative models they were pursuing. We integrated the responses of both grant recipients and unfunded project leaders in our analysis and discussion, because they were pursuing similar goals and experiencing analogous challenges in their work. However, given the 60% overall participation rate for our interviews and the fact that it is not possible to assess how representative the applicants were of organizations nationwide that may have been considering SIB-financed programs, we do not make any claims about the external validity of our findings, nor are we undertaking any causal analysis in this exploratory study.

What Proposed PFS Pilot Features are Perceived to Presage Feasibility?

In our analysis of the U.S. DOE’s review of Preschool PFS feasibility pilot applications to better understand what pilot features were seen (from the reviewers’ and applicants’ perspectives) as presaging PFS success, we focus primarily on the three most highly weighted components of the application—the quality of the preschool program design, the PFS partnership, and work plan (25 of 105 total points each, or more than 70 percent of the total possible points). The lowest weights (5 points each) were assigned to the quality of the project leadership and the priority designation (based on outcomes to be used in evaluation).

High-quality, evidence-based program design

As Tse and Warner (2018) point out, while it an overarching goal of SIBs/PFS to promote innovation and allow local flexibility, they require strong documentation or evidence of the likelihood to achieve results and high degrees of model fidelity to garner funding (Berlin, 2016). Indeed, the primacy of the quality of preschool program design—consistent with federal (Office of Management and Budget-OMB) intent to fund programs that are already known to be effective and more likely to produce positive impacts (U.S. GAO, 2015)—came through resolutely in the feasibility pilot application reviews. All eight funded pilot applications specified that an evidence-based preschool curriculum would be used, with six of these eight naming the curriculum or required components. This contrasted with only half of the 12 non-funded pilot applications that specified the preschool curriculum would be research-based.

Furthermore, reviewer comments on the technical review forms indicated that they were reading carefully into the extent to which the curriculum components were already being enacted at the sites with fidelity or whether there was capacity to implement or expand them (e.g., teacher training and instructional staffing ratios, student screening and assessment, coordination

with existing social services, culturally-sensitive programming and inclusive practices for students with disabilities, etc.). In addition, the reviewers were attentive to the proposed outcomes to be achieved by the preschool program and whether indicators for measuring changes in outcomes were clearly specified and measurable, satisfying “a requirement of data-driven analytical approaches” (*reviewer comment*). Every funded pilot application identified measures of student achievement, socio-emotional learning (SEL) and other student outcomes, whereas, only half of the non-funded applications described specific outcomes.

The guidance for the feasibility application reviewers indicated that the applicants should also explain *how* the measurable outcomes would be achieved by the program or intervention strategy, drawing on quantitative and qualitative or theoretical evidence. This aligns with OMB (2013) prescriptions for evidence use that have now been incorporated into SIPPPRA requirements for use of “objective data” in PFS projects to verify that programs are achieving “demonstrable, measurable results.” In the funded preschool PFS application that received full points on this dimension in all three reviews, reviewers commended the applicant’s high-quality benchmarks and identification of short, mid, and long-term outcome goals and measures, including kindergarten readiness (cognitive measures and their progression across three different time points), third grade reading proficiency scores, school attendance and on-time grade matriculation, as well as measures of children’s social and emotional development. Importantly, the applicant described the preschool program model components in considerable detail, along with the evidence base (and a logic model) linking the use of specific, objective measures to each program goal. Moreover, this and other applicant applicants were able demonstrate (via prior work) their capability with partners to match children’s pre-K records to school district data and develop a longitudinal database for tracking children and measuring their outcomes over time.

The preschool PFS applicants with more detailed and sophisticated descriptions of the program design and evaluation elements were also more likely to have solidified partnerships with intermediaries or evaluators and to have engaged in prior evaluation work with these partners. The top-rated applicant also touted their experience successfully leading a PFS feasibility project in another area of child welfare, and from our interviews, we learned they had received more than \$20 million in public and private funding to expand their preschool program as they were preparing the application. This affirms the critical role of high levels of organizational knowledge and capacity for developing an adequate application for a PFS feasibility pilot and demonstrating promise for executing it. It also raises the question of whether the resources provided in the recently passed U.S. Bipartisan Budget Act will be allocated to more vigorously support capacity building among new, as well as existing, organizational partners working toward a PFS, a role that the UK and other national governments have more actively assumed (Arena et al., 2016; Greenblatt & Donovan, 2012).

Public-private partners and payors for PFS implementation

The GAO's (2015) review of early PFS projects suggested that they were working better when they built on or expanded existing, effective interventions, and this was reflected in the feasibility pilot application reviews, as well as the subsequent SIPPRRA legislation that articulates the intent to create public-private partnerships that "scale up effective social interventions *already being implemented* by private organizations, nonprofits, charitable organizations, and State and local governments" [*emphasis added*]. The pilot application reviewers were instructed to evaluate the quality of an "existing Preschool PFS partnership, including the history of the collaboration, or, if a Preschool PFS Partnership does not exist, the quality of the plan to form a Preschool PFS Partnership," as well as the extent to which partner roles and responsibilities were

clearly described and appropriate. The reviewers, in turn, identified as weaknesses the lack of an existing partnership and rated more poorly PFS partnership quality when key partners/elements of the PFS arrangements (e.g., investor, intermediary, evaluator or payor) were not identified.

For example, a feasibility pilot application with one of the lowest ratings for the partnership dimension described existing partnerships between the city, the early childhood program offered in its public schools, local and regional foundations, and a women's caucus that had successfully sponsored legislation to establish an office of early childhood in the city. One of the reviewers noted that the partners had a history of working together on early childhood initiatives, and our interview with the applicant affirmed the city's continuing, strong commitment and leadership in working toward the goal of universal pre-kindergarten (preK), including a successful tax referendum, a strategic plan for implementation, and new funding for quality improvement of area preschool programs. In explaining their low ratings of the application on this dimension, one reviewer suggested that the PFS partnership lacked detail on the roles of each of the partners, and another pointed out that the mayor's letter did not commit the city to being the payor (or sharing the responsibility for paying for successful program outcomes). However, even among funded feasibility pilots (following more than a year of pilot work), it was rare that the payor had been identified.

In reality, among the eight feasibility pilot applications selected for funding, only three proposals identified a "likely" or prospective payor. One of these three funded applications identified a school district as a possible outcomes payor and indicated that the district's commitment to being the payor would be contingent on a "rigorous" demonstration of the program's effectiveness in improving child outcomes. The highest rated application did not identify a payor in advance, and in our interview, the pilot PFS director stated that she thought

the PFS had a 5-10 percent chance of succeeding, with the biggest challenge determining who would be the payor. A team member of a funded feasibility pilot operating at the state level indicated that they likewise were struggling with who should be the payor—would the savings be state-wide or local? Given the highly regulated nature of funding mechanisms at the state level, it wasn't clear that there would be a mechanism for the state to make payments to an investor. Alternatively, another project leader suggested that because of their state's proportionately high level of contributions to special education funding, the state was the only logical (prospective) payor. Still, the director of one of the funded feasibility pilots that had identified a payor in its application communicated pessimism in an interview that the arrangement would work out. They were finding through their modeling that the anticipated outcomes payment would be too high for the intended payor (a school district).

In addition, only three funded feasibility pilots and none of the unfunded sites identified an intermediary in their applications, and of those that did, it was the same intermediary (organization) for each of the pilots. Where specified in the applications, it was generally expected that the intermediary would guide the design and management of the feasibility study and support its completion, providing expert consulting in implementing the PFS concepts and components. Thus, the intermediary is intended to play a central, coordinating role in the development and execution of a PFS pilot, yet more than a year into the feasibility pilot grants, few funded pilots had yet confirmed or contracted with an intermediary. One of the funded applications stated that they would contract with an experienced intermediary to conduct the feasibility study through a "competitive procurement process," yet the same pilot program leader commented in our interview on the lack of options or choice in experienced intermediaries (i.e., making it difficult for procurement to be competitive). A pilot program director that had

considered the same intermediary used by the three pilots with a contracted intermediary indicated the quote for managing their PFS contract was “cost-prohibitive,” and they were struggling to find an affordable alternative. These circumstances prompt another important question about the U.S. federal government role in supporting SIBs/PFS—would the pilots and other prospective PFS projects be more successful if the government provided more of the capacities or technical assistance of an intermediary?

The other key partner in the essential infrastructure of a SIB/PFS is the independent evaluator. A hallmark of SIB/PFS evaluations is the *intention* to employ the most rigorous methods possible to evaluate the “impact” of the intervention, preferably using randomized controlled trials (RCTs) or other rigorous methodologies that allow for causal attribution of the measured outcomes to the intervention (GAO, 2015). Five of the eight funded Preschool PFS applications had identified a likely organization to serve as the evaluator, while only two of the 12 that were not funded specified an evaluator. However, among both funded and unfunded applications, the references to the types of methods to be used were vague, with about half noting the aspiration to conduct a cost-benefit analysis, but only one referencing the potential to conduct a RCT. The word “impact” was also used loosely in the applications and applicant interviews, including in reference to simple regression methods without a control or comparison group.

As Berlin (2016) pointed out, an important distinction or innovation of SIBs/PFS projects is that the payor only has to make payments if the intervention is determined to be successful by the independent evaluator. While this ostensibly reduces the risk for the government payor, the investor’s repayment is made contingent on the evaluation results, increasing the level of risk for the investor. As Davison and Heap (2013) deduced about SIB arrangements in the UK, the SIBs that are most attractive to investors are those that look more likely to generate large and *reliable*

returns, rather than riskier, more innovative projects (Tse & Warner, 2019). And one strategy to realize more secure returns is to specify simpler, easier to achieve outcome measures along with methods that, in Berlin's (2016, 2) words, "may misleadingly provide only the illusion of benefits and savings to government entities."

Putting the PFS components together: Contract arrangements and capacities to make PFS work

As shown in Figure 1, the intermediary plays a key role as a conduit between partners in implementing a PFS feasibility pilot. Thus, identifying an experienced intermediary and describing the intermediary responsibilities were critical factors in DOE reviewer ratings of the Preschool PFS work plans. The sum of the three reviewer scores on work plan ratings were on average more than 22 points higher (of 75 total) for applications that had named an intermediary (confirmed or prospective). Similarly, work plan ratings were on average 15 points higher if an independent evaluator had been identified in the application.² Reviewer comments suggested that they were looking for a clear delineation of responsibilities between intermediaries, evaluators and other program partners, along with a well-developed timeline of proposed program activities. Having an intermediary and evaluator on board appeared to aid in solidifying these aspects of the work plan; in fact, for the three funded applications using the same intermediary, the work plans and logic models included were nearly identical (suggesting "boilerplate" materials provided by the intermediary). Key program activities to be undertaken in the feasibility pilots (as articulated in the federal guidance and pilot applications) included: identifying a funder and funding streams to support the project; legal and regulatory assessments of the performance-based contract terms; determining the accessibility and quality of data for the project; aligning core program outcomes and the pricing/payment rates of the end payor; developing a rigorous evaluation methodology to

determine if outcome(s) have been achieved; data analysis and modeling to estimate financial benefits and cost savings generated by the preschool program; assessing community needs, assets, and capacity; and specifying opportunities for stakeholders to have regular and meaningful input toward achieving the project goals.

Among the above tasks, perhaps most distinctive to the undertaking of a SIB/PFS are those that involve modeling the financial benefits and cost savings and defining the terms or pricing for the end payor in relation to program outcomes achieved, in part because this is typically projected for a longer term or stream of payments than a typical (e.g., annual or shorter-term) performance-based contract. As indicated in the U.S. Department of Education's (2017) "Tool Kit" for guiding feasibility studies, these tasks are critical to determining if a PFS project is viable and to moving on to the next phase, where the transactions are structured and formal agreements to implement the project and the evaluation are negotiated. Project leaders working with an intermediary indicated that the intermediary assumed a major role in the economic modeling and pricing of outcomes, although none had progressed to the point of finalizing a financial model with outcome targets, the mechanism for assessing costs and benefits (in dollars) of achieving the outcomes, and the timing of the costs, benefits and payments. The U.S. GAO (2015) asserts that because the government makes payments based on the service provider meeting the outcome targets, all parties to the PFS contract should have a vested interest in the service provider's success. This should also be the case, however, for any performance-based contract where the government pays a service provider for outcomes achieved, which begs the question: what are the distinctive advantages of developing these formal PFS partnerships, undertaking the onerous planning, and negotiating these considerably more complex PFS

contracts to execute projects that the evidence base already suggests are likely to generate large returns (Fox & Albertson, 2011; Tse & Warner, 2019)?

One potential advance of PFS arrangements is their encouragement of a focus on longer-term or future public sector gains (Lantz et al., 2018), which could help to resolve a long-standing public sector performance management problem known as the “time-shortening disease” (Bouckaert, 1993; Heinrich, 2003). This is the phenomena in which policymakers or public managers focus on shorter-term, more readily measurable (and achievable) performance goals to the neglect of intermediate or longer-term goals, in part because of political pressures to demonstrate immediate results, but also because it is often difficult to translate longer-term objectives into performance goals that can be readily tracked for performance monitoring and accountability. In multiple interviews with both funded and unfunded Preschool PFS applicants, we heard from program implementers about how the PFS opportunity spurred them to consider longer-term outcomes, such as 3rd grade reading scores, which one program leader speculated would be on the list of outcomes of all PFS pilot plans. Another pilot program representative indicated that they were considering an eight-year re-payment timeline for their program, but they were struggling to find studies on their evidence-based preschool model that had examined longer-term outcomes (to aid in developing the payment/pricing plan). A pilot applicant that was not funded reported that they were still able to make progress toward examining outcomes throughout a student’s whole public school career via new infrastructure they built to track children from age three years to 3rd grade; the new technology and assessments replaced a system where data previously “lived in different silos” and children’s records had to be linked one by one. Still another pilot program leader indicated that even if the study determined that PFS financing was not feasible, the analysis they were undertaking with the intermediary would

be useful for assessing what outcomes need improvement, how the program is advancing those outcomes, and how the program might be expanded to serve more children in need.

At the same time, across our interviews, there were no funded or unfunded program representatives who expressed strong confidence they would reach the point of successfully establishing a formal PFS agreement. A leader of one of the funded pilots—which was working with an experienced intermediary and evaluator and had progressed further in their feasibility study than most programs—described the need to evaluate, price and pay for outcomes over a longer time horizon as a major problem for both providers and investors. He explained the structure of the PFS payment arrangements created “cash flow issues” for providers and put investors’ money at risk for a longer period. In addition, the handful of projects that had progressed to estimating program benefits and cost savings were not obtaining numbers that they believed were sufficient to attract or secure payors, where the anticipated payors were school districts or local or state government entities. One interviewee expounded, “if you don’t have an end payor, you’ve got nothing.” Four of the project leaders interviewed described state-local public school financing rules and mechanisms as a barrier to establishing viable payment plans and rates. “School districts tend to be quite conservative and quite risk averse,” explained a project leader. Another lamented that in a program covering more than 30 school districts with children that “go from district to district,” mobility is a challenge, “because no one wants to pay for a kid who isn’t going to be in their district.” Several project leaders also described the use of “braided” (state-local-private) funding streams for operating existing preschool programs that complicated or precluded efforts to develop PFS re-payment mechanisms using public funds.

In light of these findings, we turn now to consider: if not a formal PFS arrangement, will these program sites or partners still implement *something* like PFS? What have they learned from

their experiences that they will take forward in their continuing efforts to expand high-quality preschool programming in their states or local areas?

What Is the Potential for PFS in the U.S.? Are Viable Models Emerging?

In a July 2018 UK GO Lab report, Carter et al. illuminate how in approximately 40 SIBs launched in the UK, “practitioners are pushing the boundaries of the SIB concept to try out new variants and new factors which might work better to improve outcomes”(p. 2). The report describes, for example, how SIBs vary in the extent to which they are preventative-focused and take advantage of the flexibility allowed to adapt, innovate or improve interventions, as well as in their access to data and the types of performance measurement they are able to support. Thus, even in the UK where the rollout of SIBs has been more centralized and better supported by advisory firms (e.g., Social Finance UK) and fund managers, they are finding that “local context matters greatly” for implementing this new public-private collaboration on outcomes-based contracting (p. 2). At the same time, Carter et al. point out those studying SIBs are failing to grasp these opportunities to go beyond questions (and rhetorical debate) about whether SIBs work to ask where and why they work well (or don’t work). While the U.S. has about half the number of SIB/PFS projects underway compared to the UK, we draw out some general and context-specific lessons emerging from the U.S. DOE Preschool PFS feasibility pilots, as well as from the applicants that, even without grant support, continued to work toward similar goals for expanding high-quality preschool programs through public-private collaborations.

Is PFS seen as a sustainable source of program funding?

The primary motivation for pursuing a PFS pilot among project leaders was to secure an additional source of financing for preschool expansion and quality enhancement efforts.

Consistent with speculation (Roy et al., 2017) that SIBs/PFS were spurred in part by financial

constraints intensified by the deep recession, one project leader described his state's slow, incremental progress in increasing the number of preschool seats, stating: "we have finally kind of clawed our way back to where we were a decade ago before the Great Recession, and so we are looking for alternative ways to expand access... it [PFS] is a very complicated way of paying for a pilot program, but ultimately it's not going to be a source of sustained funding." The hope in this case was that they could demonstrate to school districts that the benefits of expanded preschool would outweigh the costs, and that PFS "would essentially be a transition step towards either a school district program or perhaps a school district contracting with a provider to operate a preschool program on either sort of a regular fee for service basis, or perhaps if they were feeling particularly innovative, on sort of an outcomes-based contract." In explaining why they did not see PFS as a sustainable source of program support, the project leader pointed to the "unavoidable leakage of money out of the system because you are paying a risk premium to the investors." He elaborated that with a simpler fee-for-service or outcomes-based contracting arrangement, the money "that's leaking out to the investors could be captured as a benefit to the school district." This insight resonates with Mulgan et al.'s (2011) argument that because the cost of capital is higher for private investors than government, this type of partnership may ultimately prove to be more expensive and harder to justify with adequate public returns.

Another project site that had prior experience operating a PFS similarly suggested that PFS did not hold "any particular allure other than that it was an option that we could pursue" for additional funds, adding that it was "way more complex" and "way more problematic" than the other public-private funding streams they were relying on to improve and expand public preschool options. Given the option, the project leaders would prefer more funding through their current public and private (foundation) collaboration, which they described as robust and not

without its own accountability provisions. They also did not see that PFS would change the nature of their relationship with their current public-private partners, nor did they believe (as suggested in the literature) that PFS would “free service providers” to focus on program design and service delivery innovations and improvements (Fox & Albertson, 2011; Warner, 2013; Jackson, 2013). Another project leader that likewise indicated they were “just looking for additional sources” pointed out that in their district, they had to raise funds through community bond referendums, and that these efforts were more likely to raise funds for infrastructure (i.e., buildings) than for other needs associated with program expansion. As they were serving mostly special needs students, the attraction of applying for a PFS pilot was to expand the number of children they could serve with a program that they believed was already “the best intervention that a child with special needs can get before going to kindergarten.”

In our 12 interviews with preschool program leaders, we asked them to consider the level of confidence they had that their proposed feasibility pilot could lead to a successful PFS arrangement (from 0-100%), both at the time they submitted their proposal (earlier in the interview) and at the current time (toward the end of the interview). Across both funded and unfunded pilot PFS applicants, responses ranged from a low of 5-10 percent (funded applicant) to a high of 80-100 percent (unfunded applicant). Only one funded applicant felt more confident after undertaking the pilot (an increase from 50% to 60%) that they would progress to a formal PFS arrangement. Two of the five funded interviewees did not think it would work, one stayed at the very low 5-10 percent probability, and the other felt confident that they would come up with some kind of feasible model, but they weren't sure what it was going to look like. On average, the Preschool PFS applications that were not chosen for funding were more optimistic about their prospects of ultimate PFS success at the time of application (average probability of 56%) than

those selected (42%). The two applicants that conveyed the most knowledge and experience with PFS—both funded and with prior experience planning or implementing PFS projects—rated their chances of success the lowest at the onset (5-10% and 25-33%) and were not more confident of success 18 months later. These perceptions of the prospects of PFS success were consistent with Williams’ (2018: 14) findings from interviews with 178 members of core groups of SIB actors in the U.S., Canada and the UK: “...many respondents expressed uncertainty, and in some cases downright skepticism, about the future of SIBs.” Likewise, Ronicle et al. (2017) reported that of 62 projects that received grants in 2013 from the English Commissioning Better Outcomes (CBO) Fund, 37 had decided by 2016 that they would not continue to pursue a SIB.

Insights on the viability of PFS for preschool programs in the U.S.

A comment frequently heard in our 12 interviews is that PFS is “very hard”, particularly “to get all the players onboard” and to make a convincing case of the community benefits that would attract a public payor. One leader of a project that was set in a more rural setting explained that “when people are wearing multiple hats and trying to make things work as they currently work, it’s more difficult to get people to kind of think outside the box and be able to devote significant time to a complicated [PFS] concept when you don’t know if all that time and energy is going to be fruitful.” The steering committee for this (funded) project implored: “if we’re going to move from a feasibility study to a pilot, we’re not only going to need more money, we’re going to need more people hours, staff hours, and so, where do you see this as being feasible?” This particular project is planning to move forward by scaling up their early learning program with area philanthropic organizations—*not* in a PFS arrangement—with the aim to convince other potential funders and school districts to come on board with the idea that “we don’t have to reinvent the wheel entirely, but we just have to find a way to fund it and

expand it here”. An urban-based project similarly described challenges in trying to bring the players and components to the table to make PFS work, but for the very different reason that “it’s all fragmented among agencies and the school districts,” in terms of the infrastructure for implementation and data for tracking student outcomes over time. More generally, the experiences of the pilot applicants to date strongly confirm the wisdom gleaned from past pay for results and outcomes-based performance contracting efforts; that is, the need for government management capacity (and that of its partners and service providers) will intensify, not be relieved, in context of more complicated performance-based contracting (SIB/PFS) arrangements (Hefetz and Warner, 2004; Heinrich and Marschke, 2010).

While the PFS feasibility study applicants were encountering a steep learning curve for numerous project tasks, many saw the work involved as an invaluable opportunity for pushing forward on the challenging fronts of aligning program goals with longer-term outcome measures, developing rigorous evaluation methodologies, and attempting financial modeling of program benefits and costs. For example, one project leader described how in the process of developing the application, they dug into past years to see if they could get multiple data points on various child outcomes and realized how difficult it was (i.e., there was better data in some years, and some were hard to find at all). This led them to expand their assessments and generate new higher-quality, more consistent data collection from age three through third grade. Another project leader described their team as being “completely submerged in the data analysis,” with the goal to use their analysis as a starting point in discussions with different stakeholders about the types of outcomes that they might track for students. A leader from one of the projects that was further along on the learning curve described a series of memos they had developed with their evaluator to guide their work on PFS work tasks, including a memo that outlined their

“potential short, intermediate, and long term outcomes that may or may not be monetizable” and another that “looks at all of our identified potential outcomes and determines whether or not there is a monetary benefit, where that benefit exists, how big is the benefit, and kind of the timeline for a potential investor.” This process also illuminated concerns they had about the pilot’s viability, such as the holes in their logic model that sought to link anticipated changes in longer-term outcomes to the intervention and a lack of data available to measure some outcomes.

Another applicant that was not funded described the request for proposals for the Preschool PFS feasibility pilot as a “catalyst” for them to think about whether this might be a feasible financing option for universal preK. They felt that even though the pilot wasn’t going forward, the time allocated for strategic planning (around a 5-year plan for early childhood) and for exploring how they could scale the preK program added a lot of value. Like other project leaders, they also saw issues of political will and values arise as they worked to cultivate partnerships in the community and build a stronger commitment to preK. Among their biggest challenges was how to bring the school district leadership on board, a hurdle that was echoed in interviews with a number of project leaders. One project leader described how they had progressed very far in their feasibility study, only to see it fall apart because the school district refused to provide essential longitudinal data—“it was kind of like the project was dead at that point.” Another project leader pointed to school districts’ “very vanilla” approach to contracting and lack of experience with performance-based contracting as a barrier to committing to the PFS partnership—“they tend to be extremely conservative; there really aren’t many rewards for being innovative.” Still another project leader described the potential for these issues to be “politicized”: “You know, there’s the question of should an investor benefit from societal ills, so to speak.” In several states, however, the school funding formula made it difficult for school

districts to realize enough of a cost savings to pay for the program; thus, in the absence of a state funding formula change, there was no way for PFS to work in these school districts.

The leader of an unfunded project that similarly felt they were highly constrained financially to implement PFS due to the state's public school financing model described how they persisted in their efforts to expand their coalition of supporters for public preK and to build and broaden the political will (across the political spectrum) to implement PFS. The program leaders actively cultivated the support of local and wider area business leaders; they continued to work with the local school district to expand preK funding and classroom seats; and they also sought to bring on new partners who could add capacity for evaluation, for developing financial models, and for securing PFS investors. They believed that as they increased the rigor of their methods and measures for tracking impacts over time and deepened and broadened their partnerships, they could convince the state (based on their results) to change its funding formula and make PFS viable. Another interviewee echoed the importance of "bold action," exhibited by one of their partners in putting "political capital on the line" in a tight budget cycle to set aside funds for the project and challenging the private sector to match them. The "projects rise or fall on the political will that is behind them," exhorted the intermediary for this project.

If not PFS, then what?

Even projects that encountered what they saw as insurmountable barriers to moving forward with a formal PFS arrangement still appreciated the opportunity for "the tools to maybe look at our investments in a different way," to "hone in on best practices and activities that produce better child outcomes" and to make progress in tracking and linking outcomes in early childhood to later academic outcomes. While one project that faced challenges in getting the school district to commit went "outside of the district" to try to develop a viable PFS project,

other projects focused on opportunities to make improvements within their school districts (e.g., newly linking datasets and exploring new collaborative approaches to financing preschool expansion). Another funded feasibility pilot that was not going to pursue the PFS described how they were working instead to do a pilot of their preschool design to show “proof of concept” and thereby attract philanthropic funding or to say to the state: “We’ve got proof. It works here... Let’s duplicate this design across the state... let’s utilize state monies.”

One project leader explained that while they had “a very strong picture of what the overarching concept and goals were [of a PFS],” they had not gotten into the minutiae. Going forward, they were likewise taking the concept of a PFS as a “blueprint” for a project they are now implementing with public and private partners to track students from preschool into their college years. Their plan includes providing college savings accounts for young children when they begin school and a year of free community college tuition when they graduate. As nearly all of the PFS feasibility study applicants had existing collaborations with other government, community or nonprofit organizations, most were continuing to build on these partnerships and to apply for additional resources. One grant recipient that was not intending to further pursue the PFS indicated that they were invited to submit an application to a foundation for what they described as “bridge money,” which will help them to continue to expand their “early learning hub” model to school districts identified through the pilot as interested in expanding preschool opportunities.

Finally, a number of PFS feasibility study applicants described the benefits of going through the application process or feasibility study for prompting them to take a careful look at the features of their existing preschool program models and their strengths and weaknesses relative to other models or standards, and for thinking in financial terms how they could “sell”

the benefits of their programs to potential funders. One project leader explained that they were not able to fully satisfy the requirements of their state’s quality rating system (QRS) because they “didn’t have a mechanism to gauge what was considered quality.” Thus, an important part of their proposal for the feasibility study was to create this infrastructure for gauging their program’s quality against the validated model. Similarly, a grant recipient described the support from “data scientists” hired with the funding as “priceless” for tying data on individual children to student readiness and other outcomes. In this project, the intermediary worked with the project leaders to establish a data sharing agreement with the state, while for other project efforts, access to the administrative data continued to be a limiting factor in making PFS work.

Conclusion

Through SIPPRRA, the Every Student Succeeds Act (ESSA), the Workforce Innovation and Opportunity Act (WIOA) and other federal, state and local initiatives, public funds have been authorized to continue exploring the potential for PFS—an innovative social investing tool—to produce measurable, long-term social benefits, while also generating cost savings for the public sector. Our exploration and analysis of the U.S. DOE’s first PFS feasibility pilot efforts to support public preschool program expansion identified critical elements of PFS projects that the DOE saw as foundational to PFS success, including: high-quality, evidence-based preschool program designs; existing public-private partnerships with histories of strong collaboration that also involved or identified a public payor, intermediary and evaluator; and a clear plan that delineated responsibilities between the program partners and specified a detailed timeline for execution of key project tasks (e.g., the modeling of financial benefits and cost savings and definition of terms or pricing for the end payor in relation to program outcomes achieved). In effect, the U.S. DOE had high expectations for applicants’ existing infrastructure,

plans and capacities for conducting a PFS pilot, which Dominey (2012) suggested is likely to favor larger and more experienced organizations, or those with a track record that will be more likely to minimize the private investors' risk.

Our findings from interviews with program leaders attempting to make preschool PFS pilots work suggested that the projects were frequently not “taking off” for a range of reasons, including capacity constraints (resources, personnel and expertise); the difficulties of financial modeling and projecting returns over time (amplify convincing) to get investors and payors on board; and the inherent complexities of the contract arrangements and negotiations that need to account for a host of contingencies (e.g., political leadership and legislative vagaries, economic fluctuations, changing population needs, etc.) over a longer (multi-year) period. They were also largely falling short on the expectation to undertake *impact* evaluations for assessing project returns (and determining payments for outcomes), primarily due to data access and methodological design limitations. Although many of the preschool program leaders aspired to conduct a cost-benefit analysis (indicated in nine of 20 applications)—which is predicated on a rigorous assessment of impacts—only one project mentioned the possibility of conducting a randomized controlled trial, and the interviewees primarily discussed pre- to post-intervention calculations of changes in outcomes (with one, rare mention of a comparison group). This raises the specter that in the absence of greater resources and capacity-building in evaluation, simpler, gameable or misleading measures and methods for assessing program impacts will undercut a core goal of SIPPRRA to improve the longer-term impact and effectiveness of vital social services programs (Berlin, 2016; Fraser et al., 2018).

Our qualitative analysis also suggested that the capacity-building of preschool PFS pilots was aided greatly through collaboration with experienced intermediaries and evaluators, but only

a small number of the projects (even with U.S. DOE grant funds) had adequate resources to afford their services. While an allocation of \$3 million (or between \$300,000 to \$400,000 per project) by the U.S. DOE for supporting capacity building activities was commendable, this minimal level of funding falls way short of the need and demand that currently exists for this type of support. A majority of the projects (funded and unfunded) were actively engaged in fundraising activities and efforts to expand coalitions of support—e.g., strengthening collaborations between the public sector, nonprofit organizations (local or community-based and state-wide), and private, for-profit partners (potential investors, business leaders, etc.)—some with the goal to contract with intermediaries and evaluators that could accelerate their progress toward a formal PFS arrangement.

More generally, our study findings raise the question of whether going forward, the federal government should take a more proactive and generous role (in terms of technical and funding support) to assist public-private partnerships at the state and local levels in developing essential capacities for executing PFS. In any PFS feasibility effort, public-private partners will be required to put resources at risk—e.g., significant investments of time and personnel in structuring and managing collaborations, building technical capacities, planning and analysis, and in fostering political will and support—all of which have opportunity costs. To make it more likely that these efforts will pay off, government partners at federal, state and local levels could make more concerted efforts to review regulations that present barriers to contractual arrangements, reduce restrictions on access to data, and ease political conflicts that have frequently slowed or deterred progress toward establishing formal PFS partnerships and securing a public payor. Indeed, our investigation suggested that not only is the government a key partner in making a PFS contract viable, but it also carries the primary responsibility to ensure that any

public-private partnership is politically accountable to the public for the delivery of services to vulnerable populations and for upholding values such as social equity (Tse and Warner, 2018). In addition, we believe the federal government could—consistent with the current goals and provisions of SIPPR—extend these supports more broadly to public and private organizations espousing the goals of performance-based contractual arrangements and longer-term impact evaluation, regardless of whether a PFS was the ultimate aim.

At the same time, it is important to reiterate that this is an exploratory study of one federal agency's recent efforts to assess the feasibility of PFS in one social program area (preschool programs), and that limitations of the study design and methods greatly restrict the generalizability of the findings to other PFS initiatives in progress or getting underway. We suggest that more independent research—outside of the evaluation work undertaken by contracted (PFS) evaluation parties—should be planned and supported with SIPPR funds across varying political, social and economic contexts that will undoubtedly shape both how PFS projects are structured and implemented and their prospects for success (Carter et al., 2018; Fraser et al., 2018; Tse and Warner, 2018). We also suggest that attaining the goal of a formal PFS contracting arrangement should not be the only measure of success of PFS feasibility efforts, and in fact, it might not be the most desired outcome of these efforts. Rather, supporting more public-private collaborations in building basic capacities for more effectively serving vulnerable populations and in holding public-private partnerships accountable for longer-term, outcomes and impacts could be a major public management advance of PFS initiatives that has long been a goal of public management reforms such as NPM and its predecessors.

Lastly, the research agenda for public administration scholars as PFS moves forward under SIPPR is brimming with weighty questions that will be important to address, particularly

as PFS projects advance and more data become available to study them. These include questions about viable contracting designs and how they balance financial, political and social risks and benefits, as well as the types of performance outcome metrics adopted to assess PFS success and determine payouts for results. In addition, it will be important to investigate the implications of PFS for the nature and types organizational capacity created (or drained) among the public-private partners in implementing PFS projects. Relatedly, how much will we realize in public sector savings relative to public sector investments in making PFS work? Researchers should also examine how much new investment in social programs PFS brings about over the longer-term and how it is allocated, that is, attending to the social equity implications of who benefits from public services newly offered or expanded through PFS. These are only a handful of research questions in what could be a burgeoning public administration research agenda, depending in part on the public will and capacity to continue down the PFS pathway.

Notes

¹Simple descriptive statistics were utilized in some of these comparisons (e.g., t-tests of mean differences in ratings or scores) to investigate associations, but given the small sample size (with no claims made about representativeness), we do not interpret these as systematic or causal relationships.

²These differences were confirmed as statistically significant (at $\alpha=0.05$) with a two-sample t-test.

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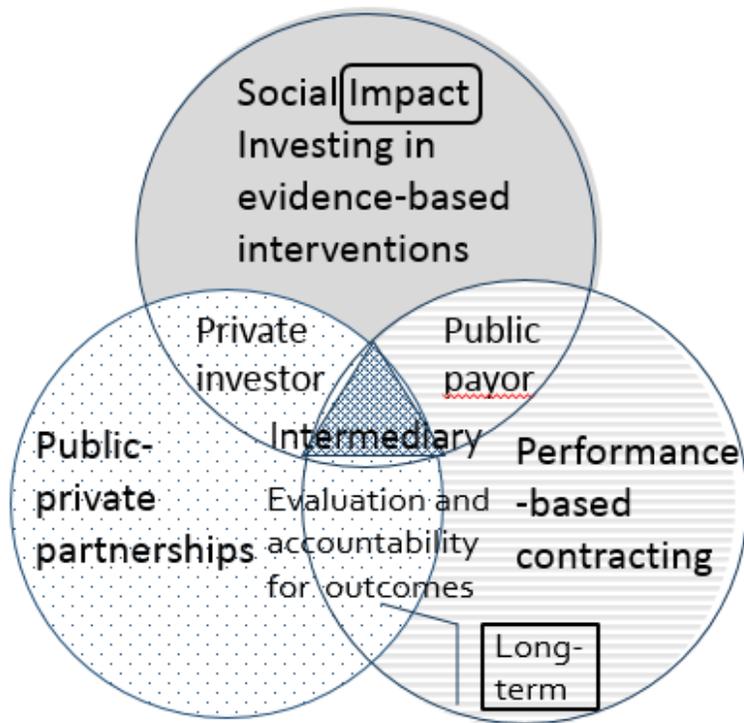
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Figure 1: Conceptual Depiction of Pay for Success Model and Components



Appendix A: U.S. Preschool Pay for Success Applications

Preschool Pay for Success Project Location	Applicant/Project Leaser	Award Status (2016)
Austin, Texas	Austin Independent School District	Not funded
Clatsop County, Oregon	Clatsop County and Northwest Oregon Kinder Ready Collaborative	Funded
Cuyahoga County, Ohio	Cuyahoga County Office of Early Childhood	Funded
Durham, North Carolina	Durham County	Not funded
Greenville, South Carolina	Legacy Charter School	Funded
Las Vegas, Nevada	City of Las Vegas Department of Youth Development and Strong Start Academy	Not funded
League City, Texas	Clear Creek and Hitchcock Independent School District	Not funded
Mecklenburg County, North Carolina	Mecklenburg County Government and Charlotte-Mecklenburg Schools	Funded
Napa Valley, California	Napa Valley Unified School District and Napa County Office of Education (NCOE)	Funded
New York State	New York State Office of Children and Family Services and Council on Children and Families	Not funded
Pittsburgh, Pennsylvania	Office of Early Childhood, and Citiparks	Not funded
Racine County, Wisconsin	Higher Expectations for Racine County and Racine County Public Schools	Not funded
Rio Rancho, New Mexico	Shining Stars Preschool	Not funded
Santa Clara County, California	Santa Clara County Office of Education	Funded
State of Colorado	Colorado Department of Human Services, Office of Early Childhood	Not funded
State of Hawaii	Office of Hawaiian Affairs and Institute for Native Pacific Education and Culture	Not funded
State of Minnesota	Minnesota Department of Education and school districts	Funded
State of Oklahoma	Oklahoma Department of Education	Not funded
Ventura County, California	Ventura County Office of Education and First 5 Ventura County	Funded
West Sacramento, California	Early Learning Services for the City of West Sacramento and Universal Preschool for West Sacramento	Not funded

Appendix B: Categories and Guidelines for Scoring PFS Feasibility Study Applications

- *Need for Project*
 - Applicants should clearly state and demonstrate the extent of the problem facing the Target Population using data and other relevant information.
- *Quality of the Preschool Program Design*
 - In responding to this criterion, applicants should identify clearly specified and measurable outcomes for the preschool program and explain how these outcomes can be achieved by the program.
- *Preschool PFS Partnership*
 - The quality of an existing Preschool PFS Partnership, including the history of the collaboration, or, if a Preschool PFS Partnership does not exist, the quality of the plan to form a Preschool PFS Partnership.
 - The extent to which the roles and responsibilities of members or proposed members of a Preschool PFS Partnership are clearly described and are appropriate and sufficient to successfully implement a PFS project.
- *Quality of the Work Plan*
 - The adequacy of the work plan to achieve the objectives of the proposed Feasibility Study project on time and within budget, including clearly defined responsibilities, timelines, and milestones for accomplishing project tasks on time.
 - The adequacy of procedures for ensuring stakeholder feedback in the operation of the proposed Preschool PFS Feasibility Pilot. If the Feasibility Study includes the reduction in special education placement as a Financial Benefit, the extent to which the work plan includes outreach to and involvement of the representatives from the State and local special education community or individuals with special education expertise, including groups representing families.
 - The extent to which the time commitments of the project director and team and other key project personnel are appropriate and adequate to meet the objectives of the proposed project.
- *Quality of the Project Leadership and Team*
 - The Secretary will consider the quality of the project leadership and team. The Secretary will consider the extent to which the applicant has the project and financial management experience necessary to manage the Preschool PFS Feasibility Pilot.
- *Budget Narrative*
 - The Secretary will consider the adequacy of resources necessary to complete the Feasibility Study, including any philanthropic or other resources that may be contributed toward the project. In determining the adequacy of resources, the Secretary will consider the extent to which the budget will adequately support program activities and achieve desired outputs and outcomes.
- *Competitive Preference Priority*
 - To meet this priority, an applicant must propose a Feasibility Study to evaluate if PFS is viable that would evaluate social and emotional or Executive Functioning Outcome Measures, or both. These potential outcome measures may be predictive of future school success, cost savings, cost avoidance, and other societal benefits, and may be appropriate to include in a PFS project.

Appendix C: Researcher Codebook for Qualitative Analysis of Feasibility Study Applications

- *Team Composition*
 - Applicant (name)
 - Project leader affiliation
 - Program delivery operator
 - Delivery method (public, private, or both)
 - Intermediary
 - Other Stakeholders
- *Setting Characteristics*
 - Setting (urban, suburban, rural)
 - Currently serving (number of preschool seats)
 - Anticipated need (anticipated number of new seats)
 - Existing resources: other
- *Target Population*
 - Eligibility criteria: age, poverty, English as a Second Language
- *Quality Elements*
 - Existing program expansion (Y/N)
 - Plan to develop new program (Y/N)
 - Research based curriculum (Y/N and name)
 - Research based quality indicators (Y/N and name)
- *Outcomes*
 - Finalized measures (Y/N)
 - Achievement measures (Y/N)
 - Social-emotional measures (Y/N)
 - Other school outcomes
- *Research Design*
 - Data sources
 - Methodology identified (Y/N)
 - Independent evaluator identified (Y/N and name)
- *Budget*
 - Amount requested
 - Amount received

Appendix D: Interview Guide

Section I: Questions for both winning and losing SIB feasibility pilot applications

Part A: Motivation

1. When did your organization first consider pursuing a Social Impact Bond as a means of financing your program and activities?
2. What reasons motivated you to develop a proposal for a Social Impact Bond feasibility pilot through the U.S. Department of Education?
3. Do you see the Social Impact Bond approach as a less risky approach to financing your program operations?
 - a. How do you see your level of risk in comparison to the SIB investor in this project? In comparison to the SIB intermediary?

Part B: Grant Application and Planning

4. How much confidence did you have at the time you submitted your proposal that the proposed feasibility pilot could lead to a successful Social Impact Bond working arrangement? Please choose among the following:
10% 20% 30% 40% 50% 60% 70% 80% 90% 100%
5. What did (or do) you see as the strongest aspects of your Social Impact Bond feasibility pilot application?
6. What did (or do) you see as the weakest aspects of your Social Impact Bond feasibility pilot application?
7. What do you think is the most innovative or transformative feature of Social Impact Bonds?
8. How did you choose your evidence-based model for this Social Impact Bond project?
9. What other models did you consider? Are you confident in the evidence underlying your chosen model?
10. Do you plan to continue with this evidence-based model?

Part C: Partnerships

11. How did you identify your proposed project partners for the Social Impact Bond proposal?
12. Do the types of partners you considered or identified look any different than the collaborations you have formed in the past to conduct your work?
13. Did you identify a potential investor for your Social Impact Bond proposal? How did you go about this, or did an investor approach you to develop the proposal?
14. What do you see as most innovative about the Social Impact Bond approach to public-private partnerships (if anything)?
15. In what ways does (or would) a Social Impact Bond change the nature of your relationship to your project partners, compared to the typical ways you arrange contracts for service delivery or other program operations?
16. Did you select an independent evaluator for the Social Impact Bond project?
17. Have you used independent evaluators previously to assess the effectiveness of the work in your organization?

18. (If yes to both .16 and .17): Have you worked with this particular evaluator previously at your organization?

Part D: Preschool Program

19. Do you currently offer a public preschool program (aside from Head Start)?
- Where are preschool programs offered? (i.e., center-based, school-based, etc)
20. Of the students enrolling in public kindergarten in your area, what is the approximate proportion of students who have attended public preschool, Head Start, or private care?
21. Was there an existing public-private partnership to support/provide preschool prior to the Social Impact Bond project?
- What were the goals of that partnership?
22. Some national public preschool evaluations find that preschool intervention effects “fade out” by third grade.
- At this point, have you been able to track or determine any medium- or long-term outcomes?
 - What do you see as the biggest challenge facing your current preschool program, in terms of its effectiveness towards long-term outcomes?
23. What is the estimated capacity of your current preschool program, in terms of classroom space, staff, and expenses?
- How was local capacity taken into account when undertaking the SIB feasibility proposal/study?

Section II: Questions for winning proposals only

Part E: Determining and Assigning Roles

24. Have you settled on an intermediary for carrying out your Social Impact Bond?
25. Have you settled on an investor for financing your Social Impact Bond?
26. Are you reaching out to populations that are otherwise less likely to be served (or more costly to serve)? How is this reflected in repayment terms for the SIB?
27. What types of roles are the intermediary and/or investor playing in executing the Social Impact Bond pilot activities?
28. What strategies have you used in the Social Impact Bond partnership to make key decisions, for example, in balancing stakeholder interests and authority over different aspects of the project?
29. How much influence does each Social Impact Bond project partner or stakeholder have in determining the following (note: please also indicate *which* partner(s) or stakeholder(s) have a role in these tasks):
- Which outcomes to measure
 - The target population/eligibility criteria and number to serve
 - Measures and methodologies for evaluation
 - Terms of re-payment of investor(s) and timeline for re-payment
 - Budget items
 - Project deliverables?
30. Have any conflicts of interest or related problems emerged among the implementing partners?

Part F: Evidence and Evaluation

31. What types of evidence show that the proposed intervention could lead to government savings large enough to repay investors?
32. Did you conduct a cost-benefit analysis (CBA) to evaluate the viability of a SIB project?
 - a. How did you determine the key cost/benefit components for the CBA?
 - b. Is there a publicly available copy of the CBA that you could share with us?
33. Does the expectation for employing an evidence-based model limit (or support) the testing of new innovations?
34. Will you measure SIB program impacts with an experimental or quasi-experimental research design? How are the project deliverables linked to impact measures?
35. How will the intermediary/arbitrator determine how much should be repaid to the investor based on the results?
36. Have you established the terms of repayment in the contract, or have these provisions been discussed in the feasibility pilot?
37. At this point in the feasibility project, how much confidence do you have that your Social Impact Bond project will succeed? Please choose among the following:
10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Section III: Questions for denied proposals only

Part G: Working Outside of the USDOE Grant

38. Having not been selected for the U.S. Dept of Education Social Impact Bond feasibility pilot, are you still pursuing a Social Impact Bond arrangement?
39. Are you pursuing your project/program goals through other means of collaboration or funding? (If so, what are you doing instead?)
40. Are you working to implement the evidence-based model included in your application? (Why or why not)?
41. How likely do you think it is that you will undertake a Social Impact Bond project in the future? Please choose among the following:
10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Appendix E: Qualitative Data Analysis Details

In the inductive coding approach, we conducted an initial line-by-line analysis and identified approximately 127 unique codes identified (after removing duplicates or nearly identical codes, e.g., “current” and “existing” program structures). We then developed focused, thematic codes by grouping nodes by theme, using the interview protocol as a general guide. Fourteen categories emerged, constructed around themes such as financing public preschool programs, goals for preschool expansion, data and evaluation, and building partnerships and partner capacity. The final thematic categories and sample focus codes are shown below.

Thematic Category	Sample Focus Codes
Applicant and organization background information	Interviewee experience with SIB/PFS Applicant history with SIB/PFS Demographic information on district (/city/state)
Motivation to pursue PFS and Understanding of PFS structure	Technical understanding of SIB/PFS Experience with performance based contracting Using SIB/PFS as opportunity to innovate
Grant application and planning	Benefit of grant process Timeline of grant application and evaluation Difficulty with application
Motivation to expand preschool program	Public preschool as public good Demand for additional seats Belief in positive outcomes
Plans for preschool growth	Current plans to add seats Current plans to reform preschool __ (curriculum, teaching force, site expansion) Progress toward expansion (including financing)
Funding outside of PFS Feasibility grant	Existing financial capacity Legislative change Combination or “braided” funding
Program evaluation	Previous evaluation results Informal evaluation during application process Using PFS pilot program for evaluation
Data and evaluation methods	Availability of data Accessibility
Preschool outcomes	Measuring outcomes Long- vs. short-term outcomes Potential outcomes of interest
Evidence based or “quality” features of preschool program	Implementing evidence based changes Current features of preschool program Quality indicators
Capacity	Finding capacity (facility, instructional) for expansion Current capacity (facility, instructional) Capacity challenges to feasibility
Partnerships	Experience with contracting Primary partnerships: technical assistance

	Working with intermediary
Policies and politics	District (city/state) commitment to preschool Use of political capital District (city/state) changes to address project (funding, evaluation, data)
