Using Data to Make More Rapid Progress in Addressing Difficult U.S. Social Problems

Jeffrey B. Liebman

John F. Kennedy School of Government, Harvard University

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Abstract

This paper argues that the evidence-based policy movement needs to supplement its current evaluation-based approach with an approach that uses data at a much higher frequency to improve the administration and impact of government-funded social service programs. Doing so offers the best chance of making significant progress in ameliorating challenging social problems. The paper describes how an idealized government social service agency could use data and data analysis to improve the results it achieves. It also describes the barriers that prevent agencies from operating in this way today and outlines how targeted resources and technical assistance can help overcome these barriers. Finally, it discusses the need to move beyond effective administration of siloed social service programs so as to focus on achieving improved population-wide outcomes, especially among individuals and families who are in need of multiple types of services.

Key Words: social innovation, evidence-based policymaking, performance management, human services, what works, active contract management

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Suppose our goal is to demonstrate significant progress within five years in ameliorating a large number of social problems in individual communities and within ten years to have spread the successful practices nationwide. Based on the experience of the Harvard Kennedy School Government Performance Lab (GPL), which to date has worked with 50 jurisdictions spanning 24 states, two strategies offer the best chance of achieving this goal:

- First, we need to help the state and local government agencies administering social programs use data and data analysis more effectively as a management tool so as to generate innovation, systems re-engineering, and continuous improvement.
- Second, we need to launch, structure, and fund purposeful data-driven community-level efforts to tackle difficult social problems in a way that breaks down funding silos and introduces accountability for population-wide outcomes.

This essay contains three sections. In the first section I argue that the evidence-based policy movement needs to supplement its current budget-oriented approach, which focuses primarily on evaluating which interventions work and encouraging governments to allocate budget resources to "proven" interventions, with an approach that uses data at a much higher frequency to improve the administration and impact of government-funded social service programs. In the second section, I present a concrete example of how an idealized government social service agency (specifically, a child welfare agency) could use data to improve the results it achieves for the population it serves. I also describe the barriers that prevent agencies from operating in this way today and outline how targeted resources and technical assistance can help overcome these barriers. In the third section, I discuss the need to move beyond effective administration of siloed social service programs so as to focus on achieving improved population-wide outcomes, especially among individuals and families who are in need of multiple types of services. I sketch
an approach that philanthropic funders could take to encourage communities to experiment with solutions to this challenge, so that we can develop models that can be adopted nationwide.

1. The Need for Purposeful Attempts to Achieve Better Outcomes for Target Populations

Much of the rhetoric around the use of evidence in policy making suggests that government-funded social programs can be divided into two categories: those that work and those that don't. Under this perspective, the main point of increasing access to government data is to perform more impact evaluations so that we know which interventions to expand and which ones to defund.

The infrastructure that has been built up around the "what works" framework -- the Coalition for Evidence-Based Policy Top Tier Evidence initiative, the U.S. Department of Education What Works Clearinghouse, the Washington State Institute for Public Policy Benefit-Cost Results, the Policy Action Lab’s evaluation database, among many other examples -- has been quite successful in spreading information on effective interventions. In our GPL work, we have found that in every state and local government social service agency with which we have worked there are multiple officials who understand that some interventions in their field are "evidence based" and others are not. Moreover, although I am not aware of any comprehensive time series on the number of rigorous impact evaluations of U.S. social policy interventions completed per year, it certainly appears that the pace at which evaluation evidence is being developed is increasing and that this increase is resulting from a combination of demand-side factors (governments allocating resources based on tiered evidence standards, the philanthropic community making funding available for randomized control trials) and supply-side factors.
(reduced costs of working with administrative data, the development of causal impact statistical frameworks that have increased researcher interest in randomization-based research strategies).

And yet all of this momentum does not seem to be enough to move the dial on challenging social problems. Part of the problem is that we need a lot more innovation, experimentation, and evidence -- at least 20 times what we are currently producing.\(^1\) Most evaluations of social programs find disappointing results\(^2\), and a large portion of programs that look successful in an initial evaluation fail in replication. So we need to innovate and test at a much more rapid pace. Another part of the problem is that even when successful interventions are discovered governments don’t fund them at scale. Yet another part of the problem is that evidence becomes stale very quickly.\(^3\) For example, randomized experiments in the 1970s and 1980s found that home-visiting services for low-income first time mothers provided by the Nurse Family Partnership (NFP) increased the spacing between first births and subsequent births. But birth control technology and Medicaid coverage for birth control has changed substantially since the original experiments were done -- making them of little use in predicting the impact of those services today.\(^4\) Finally, even the best models can fail when delivered on a large scale if staff quality and other implementation details are not sustained at the level of the original experiment.

But there is a broader issue as well. **Impact evaluations, while extremely valuable, are a relatively small portion of the hard work that needs to be done with data and data analysis if we are going to move the dial on difficult social problems.** Human service

\(^1\) Bridgeland and Orszag (2013) estimate that “less than $1 out of every $100 of government spending is backed by even the most basic evidence that the money is being spent wisely.”

\(^2\) For example, Baron and Sawhill (2010) report that nine of ten evaluations of entire federal social programs found “weak or no positive effects.”

\(^3\) The social entrepreneur George Overholser has observed that “evidence melts like ice cream.” See Overholser (2014).

\(^4\) The GPL provided technical assistance to the state of South Carolina on a project that is expanding funding for NFP and providing a platform for a new randomized evaluation of the impact of NFP. We are also assisting two other states that are developing similar projects.
agencies need to be making greater use of data and analysis throughout their operations. Moreover, the rhetoric about using evidence to find out “what works” orients policy makers incorrectly toward thinking that program effectiveness is a static concept and that the budget process is the primary way to achieve greater effectiveness. Instead, political leaders should be reviewing data on whether programs are doing better this month than last month (or this year than last year) and holding agencies accountable for re-engineering their processes and those of their contractors to produce continually rising performance trends over time.\(^5\)

Consider the problem of improving outcomes for a vulnerable population. For concreteness, let’s assume we are leading a state health department in a jurisdiction that has one of the highest rates of infant mortality in the nation, and we have decided to focus on the objective of reducing infant mortality and the number of low-birthweight births statewide. This happens to be a policy area where there is a significant amount of evaluation evidence, as well as intervention models that have been certified as “evidence based.”

There are at least four types of data analysis that are needed to tackle this problem: First, the state needs to analyze infant deaths and low-birth weight births to **identify the entire target population** and formulate hypotheses about policy interventions that could potentially affect the problem. Where are the geographic hot spots? What fraction of the mothers are teens? What portion of infant deaths follow upon low birth weight or premature births and what portion result from child maltreatment? Are the mothers smokers, drug or alcohol abusers, overweight, overweight,

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\(^5\) There is a parallel between my argument and recent developments in federal management policy. The Bush Administration’s Program Assessment Rating Tool (PART) system focused on systematically assessing whether each government program was achieving its goals and was often perceived by agencies and Congressional committees as a mechanism to apportion programs into those that were worth keeping and those that should be eliminated (Moynihan, 2008). The Obama Administration’s performance.gov approach focused on setting high-priority performance goals and on tracking and improving performance trends. See Metzenbaum (2009) for an influential presentation of these ideas, and Metzenbaum and Shea (2017) for a recent assessment.
or undernourished? What, if any, preventive services were provided to these mothers? Some of
this analysis could be done with data from birth records, another portion from Medicaid claims
data, another portion from health department and child welfare agency case files, and some
might require pulling the medical charts of a random sample of births with bad outcomes.

Second, the state needs to use data on risk levels and intervention cost effectiveness for
specific subpopulations to refer the right people to the right services. Which low-income
pregnant mothers should get referred to intensive evidence-based home-visiting providers, which
to lower-intensity home visiting, and which to no home visiting at all? Which communities need
to be targeted for public health campaigns around nutrition, exercise, and healthy infant sleep
practices? Where do more resources need to be invested in drug treatment programs and teen
pregnancy prevention? How can target mothers be identified early enough in pregnancy to
impact birth outcomes?

Third, the state needs to track service receipt in real time and then collaborate with
service providers to minimize the portion of the target population that falls through the
cracks. Each month the state program lead should review data on what percentage of pregnant
mothers referred to home visiting actually received services and should meet with providers to
review case files to identify reasons that target individuals failed to receive services and make
changes in processes to improve the fraction of the target population that is reached. The state
should also review cases with bad outcomes that were not referred to services and analyze what
can be done through better outreach and targeting of services to reach the highest-risk
population. And it is not just the initial receipt of services that should be tracked -- progress
toward program completion should be monitored as well.
At the Government Performance Lab, we refer to this combination of high frequency review of data and regular collaborative meetings between government agency staff and service providers to identify opportunities for systems re-engineering as "active contract management" -- and we contrast it with the more typical relationship between contract officers and providers that focuses on invoice processing and compliance reviews. In the projects we have been involved in we have seen active contract management increase the fraction of recently released prisoners who make it to job training in New York State, improve the targeting of permanent assisted housing slots to homeless individuals in Massachusetts, reduce the lag between when a child welfare agency refers a family to emergency services and when those services begin in Rhode Island, and improve the coordination of services for the homeless in Seattle.⁶

Fourth, the state needs to **annually compare outcomes for individuals referred to different services to make decisions about how to allocate resources and adjust referral protocols going forward**. If multiple service providers are serving the same population, their results should be compared and the state should either reallocate slots to the most effective providers and/or convene meetings at which the higher achievers can share best practices with the others. These sorts of comparisons are not always straightforward. Results need to be adjusted to account for differences in the populations being served by different providers. Otherwise, providers who target the most difficult cases will be penalized. And short of randomization, there is no way to adjust for differences that are not measured in available data. But quite often there are opportunities to use regression-discontinuity strategies to compare outcomes for people just above and below thresholds for referral to services, and there are opportunities to replace idiosyncratic referral processes with deliberate ones that involve

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⁶ Further details on the Seattle project are available in Azemati and Grover-Roybal (2016).
randomization so as to facilitate comparisons of relative effectiveness. Moreover, even when only unadjusted outcomes by service type can be calculated, they can be quite revealing. For example, if we observe that only 10 percent of TANF recipients referred to job training are both employed and earning more than $10,000 a year three years after training is completed, we would know that the state needs to rethink its strategy for helping this population achieve economic self-sufficiency. If we never identify self-sufficiency as the goal and never measure medium term earnings outcomes, the state might plod along, funding slots with the same service providers, without any realization that the strategy needs to be rethought.

The overall point is that if we want to achieve better outcomes for vulnerable populations we actually need to make a purposeful effort to do so. We need to define the population we are trying to reach, measure the outcomes we are trying to improve, and use data and analysis throughout the policymaking and service delivery chain to drive the systems re-engineering and continuous improvement efforts necessary to achieve better outcomes. Evaluating the impact of particular intervention models is only one part of what needs to be done.

2. Overcoming Obstacles to Effective Use of Data by Government Human Service Agencies

Every one of the three dozen state or local government social service agencies the GPL has worked with produces a large volume of performance data, much of it in quarterly or monthly reports mandated by the legislature or the federal government. Most of the agencies have internal performance dashboards that they review in regular meetings with senior leadership. But many of the performance metrics are highly imperfect (for example, a state labor department that focuses on the percentage of people completing a job training program who are employed immediately after completing the program, ignoring those who failed to complete the program
and also failing to measure the longer term impact on employment and earnings). And agencies find it very challenging to go beyond performance reporting to use data to drive performance improvement. This is not to say it does not happen. We have observed remarkable examples of agencies improving processes in a relatively short time when leadership and technical capacity have been aligned, but these have mostly been isolated examples of a single agency improving a single process rather than agencies that use data effectively throughout their operations to constantly improve results.

Let me illustrate some of the kinds of analyses that agencies find difficult to do. To make the examples concrete, I am going to discuss these issues in the context of a child welfare agency; most could be illustrated in any other human services agency.

1. Improving outcomes for the entire target population, rather than focusing solely on those who arrive at the agency's front door. In annual reports of child welfare agencies, the first table often shows trends over time in reports of child maltreatment. If this trend is downward, it is interpreted as progress. But reports of maltreatment can decline either because maltreatment declines or because reporting rates decline. While all states now have processes to review child deaths, in some states these reviews continue to focus primarily on cases that occur in families that were previously known to the state human services agencies. Agencies should regularly measure all preventable child deaths in their jurisdiction as well as child injuries. If the ratio of maltreatment reports to deaths and injuries is declining, this is a sign that reporting needs to be improved. Case reviews of preventable deaths and serious injuries in families that were not previously known to the state human service agencies should ask why these families were not previously identified as needing services and what services might have prevented the incidents. Analysis should also identify geographic areas and demographic groups that are most likely to be
missed by the system and target outreach to those areas and groups. The reason these sorts of analyses are rare today is that agency program leads are each in charge of managing a siloed spending program that delivers services to people identified by that program, but typically no one is responsible for whether the system as a whole is achieving the desired outcomes for the entire target population.

2. *Evaluating the quality of decision making on whether to do an investigation, whether to open a case, whether to refer a family to particular services, and whether to close a case.* Some state child welfare agencies have very clear “structured decision making” protocols linked to validated risk assessments that guide staff in determining when to do an investigation and when to remove a child for placement into foster care. Other jurisdictions give staff considerable latitude in making ad hoc judgments based on experience and expertise. But either way, state agencies should regularly evaluate whether the lines are being drawn at the right place by comparing subsequent safety outcomes (new reports of maltreatment, child deaths, child injuries) for cases just below the thresholds for doing an investigation or opening a case to those just above the thresholds. If subsequent safety outcomes are poor for those just below the thresholds, then the threshold should be lowered. If subsequent safety outcomes are very good for those above the threshold, it may be worth experimenting with raising the threshold to see if those families do similarly well even with a more limited set of in-home services but without a formal case opening. To facilitate such analysis, it may be necessary to collect data on the subjective assessments of risk levels by agency staff making the decisions so that those cases that are near the threshold can be identified.

3. *Focusing on outcomes rather than volume of service metrics.* While all child welfare agencies we have worked with have strategic plans that focus on the goals of safety,
permanency, and child well-being, there is a wide variety of approaches they take in designing the data dashboards they review in their regular senior staff meetings. In particular, it is quite common for these meetings to focus on volume of service metrics, rather than measures of safety, permanency, and child well-being. Common metrics are the size of the caseload, the number of case closings, and the number of children referred to different types of services. Agencies often focus on volume metrics because these metrics determine the rate at which the agency exhausts its annual budget allocation and also how large the caseloads are for social workers. While monitoring the volume metrics is important and can lead to decisions that affect the quality of services delivered, when leadership attention is focused exclusively on volume metrics, opportunities are missed to improve service delivery and outcomes.

4. Interpreting implications of data in a way that can drive operational improvements. We regularly observe meetings at which agency leadership is looking at the right data, but not asking the right questions about them and at which the staff are presenting data, but don't offer any useful interpretation of what the data mean. For example, a histogram might be displayed of the distribution of social worker caseloads, showing a mode of approximately 20 and that 90 percent of caseworkers have caseloads between 15 and 25. Everyone will nod when the data are presented each month and say "the range of caseloads is interesting, maybe we should do something to reduce it," but no one asks any operationally relevant questions. Are the large caseloads all from a single regional office that is understaffed? Is the heterogeneity in caseloads across caseworkers appropriate with some caseworkers given a larger number of low intensity cases and others given a smaller number of higher intensity cases? Is it resulting from some

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7 See Behn (2014) on the difference between creating a white elephant performance dashboard and actually undertaking a data-informed performance leadership strategy. Behn notes that in contrast to the popular expression, data do not in fact speak for themselves.
caseworkers failing to do the paperwork to close inactive cases promptly? It would be straightforward to check in with field office managers about outliers and reasons for this heterogeneity and, if necessary, to pull a sample of cases to sort out what is going on. But this doesn't happen and so data are presented month after month without any useful interpretation or follow up.

5. **Collaborating effectively with service providers outside of government to make sure services are delivered effectively.** As I mentioned briefly above, government social service agencies rarely do a good job of managing the private sector social service providers they contract with. This is the problem the Government Performance Lab has the most experience helping agencies with -- to date we have helped governments improve their contracting processes for homelessness services, child welfare services, prisoner re-entry services, adult basic education services, workforce development services, early childhood home visiting services, pre-K services, and juvenile justice services. Typically, governments contract for services without identifying the strategic purpose they are trying to achieve -- and simply pay for slots in programs. They usually fail to measure the outcomes achieved by contractors or to build effective outcome reporting or performance incentives into contracts. Most importantly, they typically fail to actively manage provider performance once contracts are executed. In our work, we help government agencies track in real time whether individuals referred to services actually receive services, whether the individuals are progressing successfully through the service model, and what their subsequent outcomes are. We help agencies set up regular (monthly or quarterly) meetings with service providers to review performance metrics and to discuss how the government and the providers can collaborate to achieve better results. For example, in Rhode Island we have helped the child welfare agency establish monthly "active contract management"
meetings with the four large providers of front-end family preservation services to review
performance data and conduct deep dives on issues where the group thinks systems re-
engineering can produce better results for children and families. The key elements of the active
contract management approach are high frequency data-driven purposeful efforts to improve
outcomes implemented in such a way that a culture of collaboration develops between
government agencies and service providers.

6. Comparatively evaluating different types of services to rethink the service mix. We find that
agencies fall into patterns in which they contract every year for the same set of services with the
same set of providers and miss opportunities to alter the service mix to achieve better results.
For example, we worked in one state in which rates of placement in long-term congregate care
had been steadily rising for more than a decade in large part because the state had reduced
spending on in-home services that could enable families to stay intact. In another state, referrals
to a long-established in-home service offered by four providers had declined over five years to
substantially less than contracted capacity, leaving the service providers (who were compensated
largely based on families served) scrambling to cover their fixed costs. In yet another state, there
was a bureaucratic backlog that prevented new families from getting approved as foster care
providers, resulting in long stays of children in congregate care. Regular review of rates of
referrals to different types of placements and services and regular tracking of cases in which a
child or family is referred to a less optimal service because the first-choice service did not have
available slots can help direct attention to resource misallocation and to bottlenecks that need to
be eliminated. And comparing outcomes for similar individuals referred to different services can
help inform decisions about which services are most effective (and most cost-effective).
These examples are not exhaustive of all of the ways social service agencies could improve results through better use of data, but my hope is that they are specific enough to provide a concrete understanding of the potential for data and data analysis to be used to improve results for priority populations.

There are two main obstacles that are preventing this work from occurring today: First, many agencies lack leadership that has a sufficiently long time horizon to be willing to take on performance improvement projects, that is philosophically oriented toward using data to drive change, and that is willing to bear the stresses associated with driving change. Second, many agencies lack staff with the combination of spare capacity, expertise, and desire necessary to lead data-driven reform projects. In some cases, there are several people in the agency who could lead this kind of work but they are already occupied more than full time simply making sure the trains run on time and all of the required quarterly and annual reports are produced. In other cases, there is no one around with the ability to look at data and ask questions about it in the way that is necessary to drive a reform. In still other cases, agency leadership fails to empower the capable analysts to roam beyond their narrow silos to address cross-cutting issues -- in particular analysts and program specialists need to collaborate effectively. And in still other cases, the capable personnel decline to take on challenging reform projects because the initiatives require extra work and involve risk-taking.

There are other more minor obstacles that sometimes arise. For example, some agencies have farmed out data management to private contractors and can only regain access to the agency's own data by paying a large fee to the contractor. In other cases, data warehouses have

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8See George (2017) for an insightful discussion of barriers researchers face in trying to access state government administrative data.
been set up at local universities, and the gatekeeper to that data becomes a bottleneck. Sometimes agencies have only seven year old computers meant for word processing and cannot easily procure even a $1000 work station and a copy of Stata to use for data analysis. Other times outcomes data needs to be obtained from a different state agency or a federal agency, and the lawyers for the various agencies operate in a risk adverse "it is not permitted" mode rather than in a problem solving mode. Such bottlenecks invariably get solved not by further negotiations between lawyers, but by intervention from an agency head or state budget officer who directs the lawyers to start operating in problem solving mode. Finally, while most of the necessary data matching and analysis is fairly simple, occasionally there is the need for technical assistance that can allow an agency to perform a more advanced level of statistical analysis than an agency can perform on its own. But the key point is that in most projects the data matching and data analysis per se is not very hard. What is hard is overcoming inertia and resistance to change and making sure there are people in the agency who are capable of looking at numbers and asking the right operational questions about them.

In thinking about how to assist agencies in overcoming these obstacles it is important to focus both on sustainability and on replication. Technical assistance needs to be provided in a way that allows agencies to continue doing whatever the assistance enabled, even after the assistance ends. Ideally, a technical assistance project that helps a government do a particular data-driven management reform not only allows an agency to continue to implement that particular reform, but also to undertake additional projects on its own, without further technical assistance, based on the learning that occurred from doing the initial reform. On the replication front, the human service agencies in all 50 states (and many counties and cities) are all essentially in the same business. In theory, a successful data-driven management reform can be
transported to other jurisdictions quite easily. In practice, the GPL has found that even when all
the steps are known from doing a project in one jurisdiction, the resources necessary for
replicating a project in a second jurisdiction can be 70 to 80 percent of what they were in the
initial jurisdiction. The hardest part of reform work is getting leadership and other agency staff
bought in to the project, training staff in taking an analytical approach, and building relationships
with service providers and other community actors. To a first approximation all of this work
needs to be done from scratch in each new jurisdiction. What does improve in replication is
one’s confidence that the process will produce the desired results.

How can we rapidly increase the number of government social service agencies making
effective use of data? There are things we mostly already know how to do and simply need the
resources and focus to achieve and things we still need to find better models for. Organizations
like the Annie E. Casey Foundation, Pew Center on the States, the National Governor's
Association, and the Harvard Kennedy School Government Performance Lab have shown that
various mixes of on site and remote technical assistance can help a willing government
successfully implement a reform project. There are important lessons that have been learned
along the way about how one verifies that a government really is committed to a project, what
one can do to increase the chance that the project gets completed in six months rather than in two
years, and how to maximize the probability that a new way of doing business sticks after the
technical assistance is complete -- but basically there are now known techniques for providing

9 Perhaps the clearest demonstration of this is in our pay for success/social impact bond work. There are now 16
pay for success projects in the U.S. The GPL has provided government-side technical assistance on 10 of them.
But even though we understand all of the steps necessary to implement a project and have done it many times, it
is still taking at least two years from conception to service delivery in these projects. Certain steps in the process –
getting decisions from government decision makers, obtaining legislative authority, helping local service providers
become comfortable with the pay for success model and able to understand the financial implications of increasing
the scale of their operations, setting up the data systems necessary to track outcomes, waiting for investors to be
recruited – need to be done anew in each project.
technical assistance that result in successful execution of reform projects in government human service agencies. This is not to say that the work is easy -- overcoming inertia and deliberate resistance to change is hard. But if we had a willing agency head, it would be relatively straightforward to provide them with 4 outside FTEs to work with 4 internal FTEs to implement a project that aimed to purposefully use data to re-engineer a large number of their systems over a two-year period to achieve better performance (one might want more than 4 FTEs for a complicated agency like Medicaid and fewer for a relatively straightforward one like TANF). One could imagine doing this in two jurisdictions for each of the 12 or so main state human service agencies (they would not need to be the same jurisdictions for all 12 agencies). At the end, we would have templates that could be brought to the other 48 states.\(^{10}\) There are also pretty good existing models for how to share best practices across jurisdictions once the best practices have been developed -- models of peer learning, executive education, cohort-based technical assistance and the like.

What currently seems harder is to provide state human service agencies with the human capital necessary to continue to do data-driven reforms on their own once the technical assistance ends. The existence of strong human capital would also greatly facilitate the spreading of best practices once they are developed because there would then exist able and willing people in each jurisdiction to implement the new models -- we would not have to provide dedicated FTEs to each via outside technical assistance.

The scale of this challenge is not that large. Suppose our goal was to have 4 data-focused leaders in each of the 12 key social service agencies in each of 50 states. That is only 2400 people who need to be recruited and trained -- 480 a year if we want to achieve this in 10 years.

\(^{10}\) Bloomberg Philanthropies’ What Works Cities initiative provides a good example of how to do multi-jurisdictional technical assistance at scale.
and assume 50 percent turnover. Including the human service agencies in the 50 largest cities might increase the target number by 50 percent. The best models for how to do this lie in cities like Boston, Denver, and Louisville that have started by hiring a few pioneer data-focused individuals. The pioneers have created a culture where other young workers with analytic talent want to come join those governments. Denver and Louisville have also made systematic efforts to train up a large fraction of their existing staff alongside attracting new talent.

One could imagine a state making a dedicated effort to bring in an initial cadre of a dozen analytically-oriented new staff members and spreading them across the human service agencies. While they would initially be somewhat isolated within their particular agencies, they would have both an interagency peer network and a cross-jurisdiction peer network. And over time as the group within their jurisdiction grew from 12 to 48, they would have new peers within their agencies and also have found allies among the existing employees -- and the culture around the use of data would shift.

Put simply, it seems to me that we are in a place where with a purposeful effort to inject data-driven management approaches we could greatly improve the administration of our most important social programs nationwide in a relatively short period of time. I am optimistic that by improving the administration of these programs we would make major progress in addressing difficult social problems, but that is an unproven hypothesis at this point based largely on observing how far from the frontier we are right now and therefore how much low hanging fruit there appears to be.

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11 On the Boston example see Steve Poftak City Hall’s Data and Technology Journey: Using Data to Improve the Lives of Citizens, Rappaport Institute for Greater Boston, 2016. On Denver, see Brian Elms, Peak Performance, 2016. See Blauer (2017) for a broad vision of how cities might make better use of data in the future.
3. Breaking Down Silos with Data-driven, Outcomes-Focused, Community-Level Collaboration

Many of our most difficult social problems cross agency boundaries, and families often receive services from multiple agencies. A problem with how social services are often delivered today is that each service provider is focused on providing units of a specialized service but no one is accountable for thinking holistically about what it would take to get the individual or the family to an overall successful outcome. This is true within government human service agencies as well. Most agencies are organized to have program managers who are accountable for making sure their program dollars get spent and counting how many individuals receive services from their particular program, but no one is responsible for tracking and managing the overall well-being of the target population.

I had a conversation recently with an expert in a child welfare agency about the challenge of obtaining substance abuse treatment for parents whose addictions were leading to neglect of their children. The child welfare agency would make referrals to the state's substance abuse program, but when a parent failed to show up for treatment, the substance abuse program would simply cross them off their list of individuals who were interested in treatment without thinking of the case as one that still needed attention because of the implication of lack of treatment for the well-being of the children in the family.

We need to make progress in four different areas to address the problem of silos: The first and simplest is that agencies, as discussed above, need to properly define the population that is their target, measure outcomes for the full target population, and manage their operations to improve those outcomes. They need to break down the silos and unit-of-services focus within their particular agencies.
Second, we need explicit cross-agency collaborations that allow multiple programs spread across multiple agencies to jointly define the target populations and outcomes they are trying to achieve and who meet regularly to review data and spot opportunities to troubleshoot, collaborate more effectively, and improve performance.

Third, we need to experiment with efforts to identify the highest need families in a jurisdiction and to provide appropriate case management that connects the families to the right mix of services. My Government Performance Lab is currently writing a case study about the UK Troubled Families Program that has been applying this approach nationwide in the UK.

There is also a large research project that needs to be done to inform this approach. Some jurisdiction should look at all of the individuals that had really bad outcomes -- children involved in the juvenile justice system, children who were maltreated, children who were expelled from school, etc. and map out how many different families these cases represent, what the overlap is between those showing up as problem cases in different systems, when the first time was when a human service agency became aware of a problem with the individual or family, and where the first opportunity to intervene occurred. Then we need to develop predictive models that appropriately balance the risks of overproviding and underproviding services so as to inform early intervention efforts.

Fourth, we need to find ways to channel the momentum being produced through collective impact efforts like the Strive Partnership so that they actually change how services are being delivered on the ground. The collective impact movement has correctly observed that better collaboration and a results-focused orientation is needed not only within government but with all of the partners in a community who impact outcomes for children and other vulnerable populations -- including philanthropic foundations, employers, and school districts. But even
when there is considerable high-level buy in for these efforts, it has been hard to translate this buy in into improvements in service delivery. In some of the cases, the challenge appears to be that the collective impact effort is not being driven by the entities that control either the funding or the data, and GPL's best current hypothesis is that these initiatives will be more successful when the entities that control the data and the funding are at the center of these initiatives.

I've written previously about an idea I call the "Ten Year Challenge" that could be a framework for bringing about the data-driven, outcomes-focused, community-level collaborations that I believe are necessary to move the dial on complex social programs (Liebman, 2013). A funder, either the federal government or a large philanthropic foundation, would choose one or more social problems it wanted to make significant progress on -- examples could be reducing recidivism among ex-offenders, raising third-grade grade test scores among low-income children living in high-poverty neighborhoods, preventing high-risk youth from dropping out of high school, retraining individuals who have been unemployed for more than nine months, increasing the rate of community college completion, reducing obesity-triggered diabetes, eliminating chronic and/or family homelessness, or helping developmentally-disabled youth make successful transitions into the adult workforce, among many others. All of the problems would be ones where the specific individuals in the population to be served can be identified and baseline outcomes can be established; these two factors will provide an observable baseline against which improvement can be measured.

Through a grant competition, ten communities would be selected for each problem in an effort to transform outcomes for the specific population within five to ten years. In a first step, the funder would issue planning grants of approximately $250,000 each to several dozen communities that were interested in putting together proposals. Then ten communities would be
selected for more substantial funding based on how likely the proposed project is to make significant progress in addressing the social problem, the potential for the project to yield rigorous evidence about what works, and the extent to which the approach demonstrated by the project could be spread nationwide. Although it would be terrific if all ten communities were successful, the real goal would be to discover two or three transformative approaches for each policy problem—solutions that could then be developed and spread nationwide. In the original proposal, I suggested that average-sized projects would spend $10 million a year on services and serve approximately 1,000 to 2,000 individuals (with flexibility depending on the nature of the intervention and the size of the community and of the target population). I suggested that the primary funder (the federal government or a philanthropic foundation) would cover one-third of the costs of the intervention, state and local governments would need to agree to providing another one-third, and private community partners would be required to cover the remaining third. In addition, each chosen jurisdiction would receive $1 million per year for technical assistance on data analysis and evaluation. In total, this initiative would cost the primary funder approximately $40 million per year for 5 to 10 years per social problem. Clearly all of these numbers can be adjusted by varying the number of people served and the number of communities working on solutions to each problem.

4. Some Final Words

The modern era of social-policy development and evaluation dates back to the late 1960s when large data sets and randomized experiments began to be used regularly to evaluate federal policy initiatives. Decades later, we have a better sense of what works to address certain social challenges, but we are still very far from where we need to be. We still lack proven, cost-
effective, scalable solutions to most social problems, and, despite significant government investment, we are failing to make sufficiently rapid progress in addressing our most serious challenges. Today, if a governor were to ask his or her policy advisors for a state-wide program that could cut recidivism among individuals recently released from state prison by one-third, or a program that could raise the employment of welfare recipients by 10 percentage points, there is no intervention currently available for those advisors to offer the governor that has more than a 50 percent chance of working. Even in early childhood education, where the evidence of successful interventions is strong, if the governor were to ask for an initiative to eliminate half of the gap in third-grade test scores between more- and less-affluent students, it is far from certain that an initiative could be designed and implemented to achieve that target with what we know today.

Part of the reason we lack solutions to many social problems is that the problems are hard and human beings and their social environments are complex. But it is also the case that our current mechanisms for funding and evaluating social programs do not produce a culture of continuous learning and improvement, nor do they generate opportunities for fundamental reengineering of systems to produce better results. Sustained purposeful efforts to actually move the dial on a particular social problem in a particular community are rare. My conjecture is that if we take advantage of the great expansion in the availability of data and analysis tools to actually try to move the dial on social problems in a data-driven, outcomes-focused way, we might find that we succeed.
References


