

Organizational Turnaround and Educational Performance: The Impact of Performance-Based Monitoring Analysis Systems (PBMAS)

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Abstract

How do accountability policies affect failing organizations? Are additional interventions used to turnaround underperforming agencies effective in raising performance outputs? This paper investigates the effectiveness of turnaround policies in organizations that persistently fail to meet accountability standards. Using Performance-Based Monitoring Analysis System (PBMAS) data from 169 school districts in Texas, this paper shows that turnaround interventions have only limited success. While monitoring strategies work for the most salient performance indicator in the short term, improvements quickly dissipate following an intervention. Supporting the notion that management matters, results also show that the type of monitor assigned to a failing school can affect the extent of improvement in performance.

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The performance of public organizations has been the subject of much attention following recent demands for a more efficient and effective system of governance. In response, elected officials have adopted a range of incentive policies aimed to increase the performance of the bureaucracy. These incentive policies assume that performance can be improved through changes in management strategies so that one-size-fits-all rewards and penalties will be adequate best practices for increasing performance in all types of organizations. As a result, these efforts have produced improvements in performance for some organizations, while little change is seen in others. Many scholars have examined whether these broad-based accountability policies have produced performance gains, and others have documented evidence of unintended consequences and organizational dysfunction stemming from pressures to raise performance (Rainey 2003, Radin 2006, Moynihan 2008).

While this literature has largely established that performance incentives do not always contribute positively to organizational performance in general, little attention has been given to how these accountability efforts affect underperforming organizations. In these organizations, penalties for failing to meet performance standards include additional interventions, such as site visits, audits, or the replacement of management, aimed at turning around the organization. Although these interventions may provide additional resources, they also incur substantial costs to failing organizations (i.e. payment for services, goal displacement, decreased morale). Empirical work has yet to determine whether turnaround strategies lead to higher performance or if failing organizations continue to perform below expectations despite interventions.

Existing research on the effectiveness of turnaround consists largely of small-n case studies for which mixed findings are incapable of leading to broader generalizations (Turner et al. 2004, Eitel 2004, Beeri 2009). This study aims to expand this research through the use of a large-N dataset to examine both short and long term effects of monitoring interventions in the context of K-12 education, as public education has been the subject of a highly salient accountability policies and turnaround strategies that have received mixed reviews.

I begin by considering how elected officials have responded to calls for greater accountability in the public sector. I then connect this discussion of policy implementation to theoretical propositions of whether we should expect accountability policies and turnaround mechanisms to be effective in organizations that consistently underperform. Next, I introduce turnaround policies in the realm of public education and focus on the strategy of performance monitoring. The core of the analysis focuses on the performance impact of monitors in both the short and long term. Findings indicate substantively interesting relationships between monitoring and performance over time that have important implications for the development of turnaround policies in the public sector.

Public Sector Performance

Existing research on public organization performance often grapples with the question “Why do government organizations seem to constantly underperform?” (Rainey 2003, Moynihan 2008). Unlike private organizations, where performance and survival are generally tied to measureable profits (Cameron et al. 1988, Arogyaswamy et al. 1995, Mellahi and Wilkinson 2004), public organizations may be evaluated on multiple dimensions. Public organizations are often expected to pursue a number of goals for different stakeholder groups, and each goal may be met with a different degree of success. However, with a safety net of public funding, specialized policy expertise, and near monopoly status, public agencies are often irreplaceable even if they

fail to adequately meet performance goals (Meier and Bohte 2003). With no easy replacement available to supply a public good or service, sub-optimal levels of performance by agencies are generally tolerated for substantial periods of time (Paton and Mordaunt 2004).

Despite common perceptions that public organizations are immortal (Kaufman 1979), they are not immune to decline and failure (Lewis 2002). Threats to agency life generally include policy changes, mission completion, and market competition (Jas and Skelcher 2005). In the presence of policy change, political leaders may have priorities that are vastly different than previous administrations. Thus, political power may be used to change the purpose of an agency so that it becomes ineffective by design. Following mission completion, an organization may no longer be seen as necessary for providing a public good. For instance, though the Works Progress Administration (WPA) was once viewed as vital for reinvigorating the economy, it eventually lost relevance and was ended. Finally, for organizations such as the postal service or public education, increased competition has threatened agency life. However, these organizations are often permitted to continue with little retribution for low levels of performance, contributing to the view of bureaucracy as inefficient.

With the spreading popularity of accountability mechanisms, public organizations have faced greater penalties for persistently underperforming. Performance initiatives - often identified as performance management, pay-for-performance, performance planning, managing for results, total quality management, or contracting out - have challenged public organizations to account for organizational outputs and outcomes through a variety of reporting standards. In some cases, these efforts have produced improvements in performance of organizations, but in others, these incentives fail to result in positive performance gains. Many scholars have examined the inability of these broad-based accountability policies to produce performance

gains, and others have documented evidence of unintended consequences and organizational dysfunction stemming from pressures to raise performance (Meyer and Zucker 2001, Radin 2006, Moynihan 2008). Yet few have moved beyond general outcomes of accountability policies to focus on the additional interventions needed for poorly performing organizations. Do failing organizations perform better or worse following the implementation of accountability policies as compared to more successful organizations? Are additional interventions effective in improving performance of these organizations? In other words, can failing public organizations be turned around successfully, or are they continuing to fail despite additional intervention mechanisms?

Responding to Turnaround

While the discussion of organization turnaround is widely lacking from public organization theory, scholars of private management have contributed much more time to developing a stage model to describe turnaround processes. In this literature, turnaround mechanisms are traditionally categorized as either strategic or operating (Hofer 1980, Hambrick 1985, Chowdhury 2002). Strategic turnarounds emphasize changing the business the firm is engaged in and include actions such as developing new markets, divestment, or vertical integration. Operating turnarounds reassess the way the organization conducts business and include short-run tactics such as revenue generation and cost cutting. These scholars generally agree that declines caused by the external environment should be addressed with strategic turnaround strategies while internal threats should be addressed with operating turnaround mechanisms (Chowdhury 2002).

As costs associated with turnaround are generally believed to be less than the cost incurred through an agency closure (i.e. finding a suitable replacement, training new personnel,

etc.), underperforming public organizations are often exposed to turnaround strategies. Analyzing whether strategic or operating strategies for turnaround are feasible for underperforming public organizations, Boyne (2003) categorizes turnaround policies as retrenchment, repositioning, or reorganization. Retrenchment consists of focused downsizing of the scope or size of an organization in efforts to increase efficiency. Though this drastic form of turnaround may be feasible for private firms, it is less feasible for public organizations due to legal constraints and obligations. Still, possibilities for retrenchment may lie in outsourcing non-primary duties to third parties, allowing organizations to cut costs and apply extra resources to core responsibilities (Meier and O'Toole 2010).

Under repositioning, new efforts towards growth and innovation are expected to jump start organizations with new target audiences. Similar to retrenchment, this strategy can prove quite difficult for public organizations due to statutory constraints. For example, K-12 schools cannot provide services for college students. Nevertheless, instances of repositioning can be found in public agencies. While schools may not be able to provide services for college students, they can provide college-level courses for current students. As another example, the post office has expanded service options and offers mail delivery to a much larger geography as compared to the pony express. Strategies may also include increasing service options and improving the internal and external reputation of the organization (Boyne 2003).

Third, reorganization is similar to the concept of operating strategies in private management literature in that it focuses on internal changes. Boyne argues that this approach is most similar to the replacement of personnel in struggling public organizations, though it may also include developing new budgetary or planning processes. Leadership change as a turnaround strategy has been increasingly used among public agencies, but strong empirical

evidence is lacking as to whether this change results in improved performance in the short and long term (Hill 2005).

Testing the Theory: Performance Monitoring

This study will seek to contribute to existing knowledge of turnaround by providing a large-N analysis of the effect of monitoring on performance. Monitoring, a technique similar to inspections and audits, is used by a superior organization to regulate smaller entities. Monitoring includes site visits and face-to-face meetings that are used to complement other sources of performance reporting. While monitoring, as defined here, may relate to audits through a review of financial health of an organization, it also entails a review of the competence of personnel, personnel, compliance with standards, and success in meeting outcome goals (Boyne, Walker, and Day 2002). For the context of this analysis, monitoring is most closely related to reorganization strategies that attempt to correct for deficiencies internal to the organization by either influencing managerial decisions or replacing top level managers. Boyne, Walker, and Day (2002) provide theoretical explorations concerning the potential for inspection to improve the performance of an organization. They argue that inspections are associated with both costs and benefits for public organizations. Benefits include the provision of a safety-net to help organizations cope with failure, an increase in across-the-board standards among agencies, and a symbolic gesture that provides assurance to multiple groups of agency stakeholders. These benefits, however, do not come without substantial costs. Costs to the organization include the direct costs of funding and operating an inspection system, indirect compliance costs, and goal displacement costs as organizations attempt to meet multiple, and sometimes competing, standards. Boyne, Walker, and Day argue that both benefits and costs are largely dependent on the expertise and judgment of the inspector. An individual inspector must possess greater

knowledge than the manager of an organization in order to add value to an organization's outputs. The inspector must also be able to apply the interpretation of standards evenly and consistently across organizations.

This theoretical discussion of inspection provides multiple testable hypotheses, two of which can be tested here for failing organizations. Given the benefits that may be associated with monitoring by an expert, the first hypothesis can be stated as: *Monitoring interventions will lead to an increase in performance for failing organizations.* However, given the costs associated with monitoring and the problems associated with one-size-fits-all policies, a second hypothesis is warranted: *Monitoring interventions will have no effect on the performance of failing organizations.*¹

Turnaround Mechanisms in Public Education

School districts provide an ideal setting to test the effectiveness of turnaround strategies, as schools have been the center of much discussion of performance accountability and policy interventions for turnaround throughout the last decade. With the rise in demands for greater accountability and an increase in high-stakes testing, many schools have been widely criticized for producing consistently poor results. As schools traditionally have operated as virtual monopolies (Chubb and Moe 1990, Meier and Bohte 2003), recent policy changes through initiatives like No Child Left Behind (NCLB) have focused on setting new performance and accountability standards for education across all states. Implementation of these policies, however, makes multiple assumptions that may not always hold. First, policies assume that all schools can succeed, but that certain elements for success are missing (Brady 2003). Thus, policymakers believe the solution to failing schools can generally be addressed by applying a set

¹Because a negative association between performance and monitoring cannot be ruled out with certainty, two-tailed tests will be used instead of testing a directional hypothesis.

of standards with proper management skills. This implies that all schools are capable of improving but that some are simply choosing not to due to a lack of will or misplaced priorities by those at the top of the organization (Brady 2003, Hicklin Fryar and Rabovsky unpublished). Little consideration is given to why schools may not be able to adjust to new standards quickly and easily or what turnaround mechanisms may be best suited for different types of school districts. For instance, some schools may be facing issues of financial mismanagement while others are combating dropout rates and still others are just learning how to comply with new special education rules.

Following the assumption that performance can improve for all schools, elected officials often presume that new policies can be implemented through a one-size-fits-all approach. As performance levels are considered to be linked to internal mechanisms, larger environmental factors that may limit desired performance outcomes are often ignored. Thus, the question of relative starting points for different organizations is ignored (Jas and Skelcher 2005). In addition to these assumptions regarding performance, the measurement of performance in schools is complex and needs to include multiple goals of education. The failure to consider multiple performance indicators can lead to negative unintended consequences. Often the most salient performance outputs, state standardized test scores, may be achieved at the detriment of larger, more important outcomes such as learning and college readiness that are more difficult to quantify (McNeil 2000, McDermott 2011).

As dissatisfaction of school performance continues to accelerate, a variety of turnaround strategies have been developed at the federal, state, and local level. Though not an exhaustive list, these interventions include school improvement plans (SIP), the provision of choice, the provision of supplemental services, reconstitution, and monitoring by outside experts (Berry

2003). School improvement plans are mandated by No Child Left Behind for Title 1 schools failing to make adequate yearly progress in two consecutive years (Mazzeo and Berman, 2003). SIPs are intended to bring teams together to create unified strategies to raise performance. Provision of choice mechanisms allow guardians of students in schools identified for improvement to transfer their student(s) to another public school that is not underperforming. This strategy was available in thirteen states prior to NCLB and is now required by federal mandate (McDermott 2011). Likewise, schools that fail to meet adequate yearly progress for three consecutive years are now required to offer supplemental educational services, often in the form of free tutoring. The number of students eligible for these services has increased on a yearly basis, signaling that schools are still struggling to meet performance criteria (Peterson 2005). Under more extreme circumstances, school reconstitution may involve removing a large portion of school administrators and teachers and replacing them with individuals deemed to be more qualified (Rice and Malen 2003). This type of reorganization can be controversial and, to date, has produced mixed anecdotal evidence of success (Rudo 2001).

The turnaround intervention analyzed in this study is monitoring by third party experts. Used at varying levels across states, monitoring techniques consist of assigning former educators, often former superintendents with a high level of experience, to school districts that have been identified as failing in regard to at least one performance standard. Individual monitors not only observe actions of school administrators, but they often assume management of the school district. Monitoring may also be used as a threat, encouraging schools to improve performance before a monitor assumes leadership in the district. Though school monitoring has been available as a turnaround mechanism by multiple states since the early 1980s, some states

use this intervention more than others. Further, very little is known about the extent to which monitoring is successful as a turnaround strategy for failing schools.

Data and Measures

Data on monitoring in failing organizations come from a set of Texas schools districts. Between 1993 and 2011, data were collected for 169 school districts that were subject to monitoring by former educators hired by the Texas Education Agency (TEA). Monitoring data is combined with seventeen years (1993-2010) of pooled data on school performance collected by the TEA. Texas schools are evaluated yearly on a range of both absolute and relative standards as defined by the TEA. Absolute standards include set passage rates for each portion of the state standardized test (65 percent on math and 70 percent on reading), as well as for graduation rates (75 percent). Performance levels (PLs) are assigned yearly to each district, and an increase in PL assignment for a given performance indicator is possible through “adequate yearly progress” for the given indicator. If a school fails to meet set performance requirements in one or more reporting years, the district is subject to monitoring intervention.

While monitoring may bring the benefits of expert advice to failing school districts, costs associated with this intervention strategy may offset any gains. For underperforming districts in Texas, direct costs largely consist of payment to the monitor, conservator, or management team acting on behalf of the state agency. Indirect costs may be even more threatening and include the reallocating of resources to comply with monitor recommendations, the embarrassment being identified as a failure by local media, and goal displacement to meet performance directives from the monitors. Though costs can be identified, they can be difficult to measure. Additionally, little is known regarding whether this type of intervention provides any type of payoff by improving performance for failing schools. An analysis of district performance data across time

should provide substantial evidence regarding the success of this type of turnaround strategy. Findings of positive or negative impacts may have important implications not only for the development of a more generalizable turnaround theory but for the decision making process of policymakers.

Dependent Variables

Definitions of school success are likely to vary across stakeholder groups (politicians, parents, students, local community members) and across different types of environments. While more affluent schools may prioritize college readiness, inter-city schools may be focused on increasing attendance rates. Accordingly, five outcome measures will be used in this analysis: standardized test passage rates (for Texas, this is the Texas Assessment of Knowledge and Skills, or TAKS), college readiness (percent of students scoring at least an 1110 SAT or an equivalent ACT score), graduation rates, dropout rates, and attendance rates. Using multiple dependent variables will test whether monitors influence some types of performance more than others. The use of multiple dependent variables will also affect the number of cases reported across model estimations, as not all schools have reported each outcome across time (graduation rates, for example, are only relevant for high schools). For the present analysis, determining effects across outcomes takes priority over dropping cases that may not report all five measures.²

Many studies assess absolute gains or losses of similar performance indicators in school districts. However, this measurement approach will not capture state level trends that are important for identifying low performing schools. For instance, if the state changes the structure of a standardized test or adjusts the calculation for dropout rate, performance levels may shift for all districts in the state. To account for these state level trends, performance indicators will be measured as the difference in value of the performance indicator for each monitored school

²Models with consistent case sizes are available upon request. Findings are no different than those reported here.

compared to the overall state average for each year. Mathematically, the dependent variable tested here is calculated by the equation $District\ Performance\ Difference_{it} = District\ Performance_{it} - Average\ District\ Performance_t$. For underperforming schools, the dependent variable is generally negative, as the state average is greater than performance in failing schools. If monitors lead to improvements in school performance, the difference between underperforming schools and the schools at the mean should become more positive following the intervention. As modeled, a positive coefficient will be related to an increase in performance, while a negative coefficient would indicate a decrease in performance as compared to the average for the state.³

Control Variables

Though not reflected in the assumptions of legislators in developing many performance expectations placed on public agencies such as school districts, the external environment is believed by scholars to have a substantial effect on the organizational outcomes. For education, a set of education production functions have been well developed to control for resources and constraints that vary by organization (Hanushek 1996).

Empirical research on school resources provides substantial evidence that schools with greater resources face a less challenging task in educating students. Measures of resources include expenditure per pupil, revenue per pupil, school enrollment, student-teacher ratio, and percent central administration. With the exception of student-teacher ratio, each should be positively correlated with school performance indicators.

Though the availability of resources may decrease school task difficulty, the presence of a variety of constraints may also limit a school's ability to educate students. As both poverty and

³ This dependent variable, as a form of differencing, is likely to be more robust towards threats of non-stationarity. Results using absolute gains for school districts are available on request.

race are correlated with constraints such as family income and education (Jencks and Phillips 1998), measures of constraints include the percentage of students who are eligible for free or reduced price school lunches, the percentage of students classified as special education, the percentage of African-American students, and the percentage of Latino students. The greater the population of these student groups, the more difficult it may be for schools to meet performance expectations.

Of 169 districts included in this dataset, 78 (46 percent) are charter schools. As public schools and charter schools are likely to differ in age, resources, and task difficulty levels (Sass 2006, Hanushek et al. 2007), a dummy variable is included in the model to test for differences between these two types of underperforming schools. Scholarship presents mixed findings on the quality of charter schools, as nonrandom selection of students into charters presents methodological challenges (Hoxby and Rockoff 2004, Booker et al. 2007, Sass 2005, Zimmer and Buddin 2006). Previous research indicates that charter schools may experience difficult start-up periods in a struggle to attract and retain students (Hanushek et al. 2007), and this perceived failure may become apparent for charter schools in this dataset.

Finally, a control must be included for the previous performance as well as for effects of the monitor after intervention. A lagged dependent variable is included in each model, as performance is likely to be autoregressive. Including this lag corrects for any threats of autocorrelation present in the model.⁴ Further, errors are clustered by school district or charter code to correct for variance in error across groups.⁵ Additionally, schools administrators should

⁴The Arellano-Bond GMM estimator, the Cochrane-Orcutt transformation, and the Prais-Winsten with robust standard errors all provide similar models with corrections for autocorrelation. Each of these models generated results that are largely similar and support findings presented here. The models are available upon request.

⁵ The Cook-Weisburg test statistic detects heteroscedasticity prior to clustering by district. Findings for models with robust standard errors or models using GLS approaches result in similar findings as those presented with the clustered models presented here. These models are available upon request.

develop better strategies for improving performance over time through experience in the school or district. While both controls for previous performance and post-monitor effects should be positively related to performance, the structure of the later makes assumptions about the functional form of the model as following a pattern of trend improvement or shift improvement. Trend improvement assumes a positively sloped linear relationship between performance and effects of the intervention over time. Shift improvement assumes a shift from one performance level to the next as a result of an intervention, with a general slope of zero over time. In testing the overall model with each assumption, trend improvement is insignificant and adds little to the model (note shown). Including a dummy variable to control for a shift change, however, proves significant in explaining the relationship between monitoring and performance.

Table 1 provides a description of variables for all schools in Texas as compared to failing schools. From this data, it is clear that monitored schools are performing well below the state average for all dependent variables in this study. Notably, underperforming schools also appear to face greater levels of task difficulty due to an increased presence of low income and minority students. School enrollment sizes are noticeably higher for monitored school districts, though this is largely affected by cases of monitoring for Houston and Dallas ISDs. Finally, student-teacher ratios and the percent of central administration are largely similar for monitored schools compared to state averages. These factors may present great constraints on districts' ability to meet performance expectations as compared to more advantaged districts so that they are targeted with interventions as a consequence of underperformance.

Table 1: Mean Variable Comparisons

	All Schools (n=1303)	Monitored, All (n=169)	Monitored, >5 yrs ago (n=107)	Monitored, ≤ 5 yrs ago (n=82)
TAKS Passage Rate	71.03 (14.56)	62.05 (17.50)	62.23 (16.62)	59.37 (18.50)
Dropout Rate	1.45 (3.37)	2.56 (5.93)	2.21 (3.74)	3.13 (7.72)
Graduation Rate	86.84 (12.03)	78.41 (19.52)	80.58 (15.30)	74.09 (23.07)
1110 SAT Percent	19.13 (12.10)	13.57 (10.79)	12.26 (10.34)	15.15 (11.39)
Attendance Rate	95.80 (1.51)	94.98 (2.75)	95.12 (1.87)	94.59 (3.76)
Operating Expenditure/Pupil	7202.46 (2658.56)	7275.82 (2958.35)	7065.60 (2397.04)	7525.55 (3428.32)
Revenue per Pupil	8136.55 (3246.90)	8099.95 (3298.51)	7913.62 (2749.13)	8303.20 (4098.65)
Percent Black	9.06 (13.50)	16.25 (21.51)	14.14 (20.62)	24.12 (24.86)
Percent Hispanic	34.32 (27.61)	46.86 (34.30)	51.96 (35.46)	41.16 (30.60)
Percent Low Income	51.71 (19.92)	63.89 (21.72)	66.67 (21.66)	63.50 (21.56)
Percent Special Education	12.78 (4.36)	12.29 (5.68)	11.57 (3.83)	12.66 (7.16)
School Enrollment	4418.69 (12486.70)	8816.57 (28190.48)	11608.65 (34549.03)	15333.22 (40136.86)
Student-Teacher Ratio	13.08 (2.71)	13.74 (3.20)	13.68 (2.65)	14.15 (3.94)
Percent Central Administration	1.87 (1.54)	1.87 (1.99)	1.67 (1.50)	2.06 (2.43)

Findings

In order to compare the short term and long term effects of monitor interventions, more recent data (2007-2011) will be first analyzed and then compared to schools with a monitor prior to the start of the 2005 school year to test for both short and long term impacts in monitoring intervention.⁶ Data will then be combined to examine the overall effect of monitors on school performance across seventeen years.

The results linking monitors to short term school performance are shown in Table 2. Though data includes monitors present at schools in 2011, most of these are removed because of missing performance data due to the recency of the monitor in the district. Although monitors have no effect on attendance rates, graduation rates, or college-readiness, the impact of this intervention shows a strong positive relationship with the percent of students passing the TAKS exam while the monitor is assigned to the school. Under the direction of the monitor, the TAKS passage rate for a district generally increases by 4.21 percentage points. This improvement, while positive, constitutes just half of the difference between the average failing school passage rate (62.05 percent) and that of the average school in Texas (71.03 percent). As these test passage rates are the most salient of school performances indicators and often create front-page news, it is rational to expect both school districts and monitors to prioritize this outcome over other performance indicators. However, while this improvement is important, it may be short-lived. As coefficients for the shift improvement and time are negative, the model indicates that the monitor's positive effect on performance will decline over time. In addition to the decline following the exit of the monitor, passage rates steadily decrease each year so that the impact of

⁶ This split is a function of the data provided by the Texas Education Agency. The TEA provided data regarding monitors since the program began, but the organization reported that data for the 2005-2006 and 2006-2007 school years could not be located. Further, the format of the data between the two time periods changed slightly so that more information is available for the newest format.

the monitor on performance disappears within four to five years. Thus, schools will return to performance levels previously identified as failing in the long term.

Monitoring is also correlated with an increase in dropout rates for monitored schools compared to the state average. Though findings for dropout rates are counter to expectations, this may be explained by the low validity of the variable, as dropout rates are notoriously miscalculated and underreported. Monitors are likely forcing schools to document actual dropout rates in analyses required by state such that no difference is actually realized. This may be further supported by the large decrease in dropout rates once the monitor leaves the school district.

Results also indicate stark differences between public school districts and charter schools. For three of the five performance variables, failing charter schools perform far worse than failing public schools. As charter schools are a new addition in a market dominated by school districts that have existed for much longer periods of time, these schools may be facing a number of challenges in recruiting and retaining students (Hanushek et al. 2005). Additionally, charter schools often take advantage of financial incentives to recruit at-risk students, further increasing the level of task difficulty faced in meeting performance goals.

Table 2: Impact of Monitor Presence, 2007-2010

	TAKS Passage Rate (Standard Error)	Dropout Rate (Standard Error)	Graduation Rate (Standard Error)	1110 SAT Percent (Standard Error)	Attendance Rate (Standard Error)
Presence of Monitor	4.21** (1.71)	2.26** (0.91)	-0.41 (1.80)	-3.73 (3.72)	0.18 (0.18)
Charter School	-6.93*** (1.93)	2.69** (1.07)	-7.93** (3.21)	-0.18 (1.73)	-0.27 (0.17)
Expenditure/Pupil (\$1000)	0.53 (0.37)	0.30 (0.30)	-0.28 (0.79)	-0.61 (0.58)	-0.01 (0.07)
Revenue/Pupil (\$1000)	0.10 (0.25)	-0.21 (0.14)	1.39 (0.87)	1.00** (0.48)	0.05 (0.03)
Percent Black	-0.28*** (0.03)	0.05*** (0.02)	-0.05 (0.04)	-0.11*** (0.03)	-0.00 (0.01)
Percent Hispanic	-0.20*** (0.04)	0.03 (0.02)	-0.05 (0.04)	-0.08*** (0.03)	-0.00 (0.01)
Percent Low Income	-0.01 (0.05)	-0.01 (0.03)	-0.05 (0.05)	-0.08** (0.04)	-0.00 (0.01)
Percent Special Education	-0.11 (0.13)	0.03 (0.07)	0.11 (0.18)	-0.02 (0.16)	-0.04* (0.02)
School Enrollment (Logged)	0.99** (0.49)	-0.57*** (0.21)	0.70 (0.50)	1.65*** (0.45)	0.01 (0.05)
Student-Teacher Ratio	0.19 (0.23)	0.15 (0.21)	-0.46* (0.28)	-0.35 (0.26)	-0.01 (0.06)
Percent Central Administration	-0.56** (0.26)	-0.21 (0.18)	-0.86** (0.47)	0.10 (0.47)	-0.04 (0.07)
Post-Intervention Shift	-2.42 (2.07)	-3.67*** (1.12)	3.95** (0.35)	5.48 (3.42)	-0.10 (0.30)
Year	-0.21* (0.12)	0.24** (0.08)	-0.84 (0.35)	-0.52*** (0.18)	-0.03** (0.01)
One Year Performance Lag	0.37*** (0.04)	0.84*** (0.25)	0.71*** (0.07)	0.52*** (0.08)	0.90*** (0.07)
R ²	0.73	0.49	0.82	0.66	0.77
Number of Observations	634	595	367	529	596

***p<.01, **p<.05, *p<.10, two-tailed test

Percent tested on SAT (SAT Model Only) and constant not shown

Overall, monitors appear to have the greatest effect on test performance, but evidence also suggests that this performance may fade over longer periods of time so that the school returns to its original state of underperformance. Is this short-term performance increase sustainable in the long run or can monitors improve performance only temporarily? Table 3 presents an analysis of long term performance in underperforming schools that received a monitor prior to the start of the 2005 school year. Charter schools again appear to face larger performance problems as compared to public schools. Charter schools have significantly higher dropout rates, lower attendance rates, and lower rates of college-ready students. With the exception of dropout rates, monitor interventions are not related to improvements for any of the five performance indicators. Similar to short-term performance, monitors appear to increase dropout rates across a larger number of time intervals. Even though the accuracy of this performance indicator is questionable, evidence here suggests at worst a decrease in performance for one measure and at best no change in performance for failing schools.

Moreover, these findings suggest that the use of monitoring as a turnaround strategy is not effective in the long run. When a monitor is assigned to a school, administrators may respond to additional pressure so that performance experiences a slight increase to keep the school from facing additional negative publicity or the threat of closure. However, once the monitor leaves, short-term impacts fade as the school returns to strategies used prior to intervention. Performance remains relatively stable at a point below expectations across a number of years. Unlike the model presented in Table 2, the variance explained in Table 3 is far from impressive. This may indicate that while one-size-fits-all strategies may be the preferred way to approach underperforming organizations, problems leading to failing are unique to each school environment so that a one-size-fits-all strategy is inadequate to fix complex challenges.

Table 3: Impact of Monitor Presence, 1993-2005

	TAKS Passage Rate (Standard Error)	Dropout Rate (Standard Error)	Graduation Rate (Standard Error)	1110 SAT Percent (Standard Error)	Attendance Rate (Standard Error)
Presence of Monitor	-1.32 (1.84)	0.70* (0.41)	-0.34 (1.88)	0.45 (0.89)	0.14 (0.14)
Charter School	0.05 (1.71)	0.76** (0.31)	-4.27 (3.13)	-1.53* (0.85)	-0.33* (0.19)
Expenditure/Pupil (\$1000)	-0.87** (0.23)	0.03 (0.13)	0.21 (0.63)	-0.51 (0.48)	-0.06 (0.11)
Revenue/Pupil (\$1000)	-0.87* (0.52)	0.01 (0.11)	-0.13 (0.47)	0.62 (0.43)	0.06 (0.08)
Percent Black	-0.04 (0.06)	0.04 (0.03)	0.09 (0.07)	-0.21*** (0.03)	-0.04*** (0.01)
Percent Hispanic	-0.04 (0.04)	0.12 (0.02)	0.06 (0.06)	-0.16*** (0.03)	-0.02*** (0.00)
Percent Low Income	0.11* (0.06)	-0.02 (0.03)	-0.06 (0.07)	-0.11*** (0.04)	0.02*** (0.01)
Percent Special Education	0.12 (0.23)	-0.07* (0.04)	-0.34* (0.19)	-0.09 (0.14)	-0.04 (0.03)
School Enrollment (Logged)	0.64 (0.58)	0.06 (0.09)	-1.07 (0.78)	3.05*** (0.41)	0.22* (0.14)
Student-Teacher Ratio	-0.42 (0.43)	0.04 (0.08)	-0.01 (0.50)	-0.91** (0.39)	-0.26* (0.14)
Percent Central Administration	-0.57 (0.54)	0.39** (0.19)	-0.28 (0.74)	-0.17 (0.47)	-0.12 (0.16)
Post-Intervention Shift	1.39 (1.43)	-0.36 (0.30)	3.29** (1.56)	-0.20 (0.85)	0.05 (0.13)
Year	0.53** (0.23)	0.15*** (0.05)	-0.95** (0.63)	-0.28** (0.12)	-0.06** (0.03)
One Year Performance Lag	-0.15*** (0.04)	0.06 (0.04)	0.07 (0.11)	-0.00 (0.03)	0.08 (0.07)
R ²	.08	.07	.08	.53	.22
Number of Observations	691	642	189	592	719

***p<.01, **p<.05, *p<.10, two-tailed test

Percent tested on SAT (SAT Model Only) and constant not shown

Next, data from Table 2 and Table 3 are combined to determine the overall effect of monitors on failing school districts. The combined impact of performance-based monitoring across all monitored districts between 1993 and 2010 is modeled in Table 4. Upon an initial glance, monitors appear to be significantly related to improving college readiness, a task that can be quite difficult to influence. The presence of the monitor generally leads to a 1.45 percentage point increase in the number of students who score above an 1110 on the SAT (or the ACT equivalent). However, further investigation shows that this increase quickly dissipates following the intervention, such that schools return to their former level of performance for this variable. Further, monitors do not improve any other performance variable. This may be explained in part by persistently failing schools that have received monitors at multiple points in time. However, controlling for these districts does not affect findings or alter model fit in explaining performance. Interestingly, monitored charter schools perform at a lower level than monitored public schools across all performance indicators, suggesting intriguing policy questions for future analysis.⁷

⁷ Interacting monitors with charter schools do not prove significant when modeled through OLS (see appendix) or through dynamic simulations using the Clarify package (King, Tomz, and Wittenburg 2000; Williams and Whitten 2008).

Table 4: Impact of Monitor Presence, 1993-2010

	TAKS Passage Rate (Standard Error)	Dropout Rate (Standard Error)	Graduation Rate (Standard Error)	1110 SAT Percent (Standard Error)	Attendance Rate (Standard Error)
Presence of Monitor	0.99 (1.43)	-0.34 (0.33)	1.92 (1.49)	1.45* (0.78)	0.14 (0.12)
Charter School	-6.03*** (1.80)	1.68*** (0.52)	-8.86*** (2.26)	-1.27* (0.76)	-0.31** (0.16)
Expenditure/Pupil (\$1000)	-0.56 (0.50)	0.24 (0.16)	-0.19 (0.62)	-0.18 (0.50)	-0.02 (0.07)
Revenue/Pupil (\$1000)	0.13 (0.35)	-0.17* (0.09)	0.82 (0.64)	0.37 (0.40)	0.05 (0.05)
Percent Black	-0.19*** (0.05)	0.04** (0.02)	-0.02 (0.04)	-0.19*** (0.02)	-0.03*** (0.01)
Percent Hispanic	-0.12*** (0.04)	0.02 (0.02)	-0.03 (0.04)	-0.14*** (0.02)	-0.02*** (0.00)
Percent Low Income	0.06 (0.06)	-0.01 (0.02)	0.04 (0.05)	-0.13*** (0.03)	0.01** (0.01)
Percent Special Education	0.20 (0.19)	-0.03 (0.06)	0.03 (0.23)	-0.02 (0.14)	-0.04* (0.02)
School Enrollment (Logged)	1.55*** (0.49)	-0.36*** (0.15)	0.89 (0.57)	2.68*** (0.38)	0.18** (0.09)
Student-Teacher Ratio	-0.49 (0.33)	0.28* (0.16)	-0.81** (0.34)	-0.37 (0.34)	-0.15* (0.08)
Percent Central Administration	-0.15 (0.36)	0.12 (0.15)	-0.60 (0.42)	0.36 (0.33)	-0.08 (0.09)
Post-Intervention Shift	-2.03* (1.17)	-0.23 (0.33)	1.92 (1.28)	-1.60** (0.62)	-0.01 (0.11)
Year	0.36*** (0.13)	0.12*** (0.04)	-0.60*** (0.22)	-0.07 (0.09)	-0.03*** (0.07)
One Year Performance Lag	0.11** (0.05)	0.31** (0.13)	0.56*** (0.07)	0.16*** (0.05)	0.67*** (0.13)
R ²	0.16	0.19	0.60	0.52	.49
Number of Observations	1164	1093	475	985	1164

***p<.01, **p<.05, *p<.10, two-tailed test

Percent tested on SAT (SAT Model only) and constant not shown

Finally, the time required for effects of monitoring to appear must be explored. Monitors may not result in immediate performance improvements but may be more closely related to performance in future years. Tests for gains in performance at years (t+1) and (t+2), however, show little evidence to support this possibility (not shown).⁸ The findings above are clear: The use of monitoring as a turnaround strategy in schools is an ineffective tool for improving performance. Though positive gains are seen for the most salient performance indicator in the short term, these gains quickly dissipate over time such that the organizations are not better off in the long term.

The empirical findings presented above illustrate that high cost investments for turnaround do not lead to substantial gains in performance. Why are scarce resources spent on this process if little is to be achieved in helping schools increase performance? Two possible explanations come to mind. First, politics may be at play in decisions to assign monitors to school districts. When a school receives a monitor, the school district is responsible for most of the costs associated with the intervention. Sanctions are widely publicized by local media. The school's reputation drops substantially with a variety of stakeholders and may never be fully recovered. Further, school administrators are likely to struggle to find future jobs, as they are labeled a part of the failure. The TEA possesses substantial power to change a school's reputation, and the state agency may use this power in a biased manner. Many schools that persistently perform at or below levels of monitored schools may receive less embarrassing turnaround treatments, and some receive no punishment at all.

A second explanation for the ineffectiveness of monitoring is perhaps more alarming. Of the schools monitored since 1993, seventeen percent (28 charter schools or school districts) have

⁸ Dynamic estimations of the effect of monitors over time also did not lead to findings in which confidence intervals did not overlap. The only significant differences occurred between low performing charters and low performing public schools.

been permanently closed, supporting the notion that efforts to turnaround schools through monitoring is a case of “too little and too late.” Monitors are often assigned to a school after it has been underperforming for multiple years. This intervention delay may lead to monitors who are simply tasked with closing a school instead of exerting effort to turnaround the school. When these schools close, little is gained. Students in public districts are added to neighboring districts, and those in charter schools are often sent back to the very public schools they previously attended, creating negative shocks in stable districts. In sum, neither the intended nor unintended consequences of monitoring provide positive outcomes for all parties involved. School administrators are embarrassed, students and parents must cope with a large amount of change, and monitors must try to understand the school district and make management decisions within a short amount of time.

The pattern of relationships merits additional analysis beyond the use of a dummy variable for the presence of a monitor. As public management literature has widely illustrated that management matters, successful changes in failing organizations may be contingent on the quality of the monitor. Some monitors may be better managers than others through tangible means such as frequency of meetings, background experience, and networking and quality measures. Non-tangible differences may also include the ability to correctly assess problems and make sound decisions as well as the ability to communicate well during a time of crisis (Meier and O’Toole 2007). Using data for the 2007-2011, monitor names were tracked, and background information on each was coded to test whether the type of monitor matters in revitalizing a district. Dummy variables were coded for whether the monitor was affiliated with a private consulting firm or a university as well as if the monitor has previously held a position of

principal or superintendent. Additionally, a dummy variable was included for educational attainment (doctorate) and gender (male, female).⁹

Results from this analysis, displayed in Table Five, reveal interesting patterns. Though no group of monitors was related to graduation or attendance rates, groups varied in effects on TAKS passage, dropout, and college readiness rates. Monitors with experience in consulting were able to raise passage rates by over three percent in the short term while no other trait or experience appeared significant. It is likely that these individual are most suited to the environment of monitoring due to experience in consulting in a number of other environments. These monitors may be able to prioritize turnaround goals and effectively communicate to reach the expectations of multiple stakeholder groups. On the other hand, those affiliated with a post-secondary institution were significantly related to an increase in dropout rates for failing schools districts. As previously mentioned, this is likely due to the experiences of these monitors in working with systems of large bureaucracy in higher education. These individuals may be trained to enforce the accurate reporting of performance data, as they may comply with similar rules and regulations in their post-secondary classrooms. Most notably, females and previous superintendents were related to increases in college readiness while those with the highest level of education and former principals were tied to decreases in this measure. Female monitors increased the percent of students scoring an 1110 on the SAT by nearly ten percentage points, and former superintendents were related to a similar increase of over twenty percent. Though at first extreme, the later relationships is likely tempered, as virtually all former superintendents were also former principals, resulting in a net increase of 12.89 percent in college readiness.

⁹ Race was collected but was not included in the model due to lack of heterogeneity in monitors. Controlling for black or Latino monitors would result in too small of a sample size.

Table 5: Impact of Monitor Management Experience on School Performance, 2007-2010

	TAKS Passage Rate (SE)	Dropout Rate (SE)	Graduation Rate (SE)	1110 SAT Percent (SE)	Attendance Rate (SE)
Presence of Monitor	0.24 (0.54)	0.21 (0.81)	-0.83 (1.79)	0.40 (1.48)	-0.19 (0.16)
Consultant	3.43** (1.72)	2.02 (1.27)	-3.91 (3.99)	3.19 (3.95)	0.69 (0.69)
University	-0.68 (2.09)	4.06* (2.07)	03.34 (5.37)	3.67 (2.44)	-0.61 (0.50)
Female	-0.19 (1.62)	-0.26 (1.46)	-2.12 (6.36)	9.20** (3.73)	-0.85 (0.52)
Doctorate	1.61 (2.07)	-3.03** (1.49)	3.19 (5.24)	-7.95* (4.23)	0.03 (1.12)
Former Principal	-2.08 (2.69)	-1.06 (1.89)	4.01 (5.92)	-12.35** (6.08)	1.89* (1.10)
Former Superintendent	-0.82 (2.96)	-0.44 (2.39)	-2.62 (11.23)	20.84*** (7.41)	-1.64* (0.94)
Expenditure/Pupil (\$1000)	0.82 (0.80)	0.50 (0.38)	-2.47* (1.78)	-3.54** (1.63)	-0.01 (0.13)
Revenue/Pupil (\$1000)	-0.22 (0.51)	-0.22 (0.29)	2.64 (1.78)	2.21*** (0.71)	0.05 (0.13)
Percent Black Students	-0.32** (0.16)	-0.0003 (0.67)	0.16 (0.18)	-0.26* (0.13)	0.02 (0.02)
Percent Hispanic Students	-0.32** (0.16)	-0.02 (0.06)	0.09 (0.15)	-0.22** (0.10)	0.01 (0.02)
Percent Low Income Students	0.07 (0.14)	0.08 (0.06)	-0.03 (0.18)	0.02 (0.17)	0.003 (0.02)
Percent Special Education Students	-0.56* (0.28)	0.42 (0.30)	-0.48 (0.77)	0.03 (0.60)	-0.26** (0.10)
School Enrollment (Logged)	1.02* (0.59)	0.58 (0.46)	-2.01 (1.48)	3.09** (1.20)	-0.20 (0.16)
Student-Teacher Ratio	-0.09 (0.46)	0.66 (0.43)	-2.13*** (0.60)	-0.39 (0.39)	-0.19 (0.11)
Percent Central Administration	-1.04 (0.85)	-0.09 (0.55)	-1.45 (1.70)	0.33 (1.87)	-0.17 (0.16)
R ²	.74	.38	.54	.66	.40
Number of Observations	114	106	93	85	116

***p<.01, **p<.05, *p<.10, two-tailed test

Performance lag, time from intervention, percent tested on SAT (SAT Model Only) and constant not shown

Implications

This investigation demonstrates that organizational turnaround is a complex process worth additional attention from empirical researchers and theorists alike. Using monitoring interventions in underperforming schools districts, this analysis shows only short term performance improvements for the most politically salient measure that are likely to dissipate quickly over time. For some types of organizations, short term performance improvements may be adequate. However, for many public organizations, performance improvements are needed to last for much longer periods of time. Here, monitoring proves to be a quick fix that is not suitable to address larger problems faced by public organizations. Longer term strategies are needed if improvements are to be gained and maintained across all outcome measures.

Findings also suggest that managers matter, bolstering the arguments that both internal and external mechanisms must be considered when attempting to find solutions for failing organizations. Individual monitors are significantly related to the turnaround of failing schools between 2007 and 2011: women and former superintendents increased college readiness rates while only professional education consultants were able to increase TAKS passage rates. These relationships may lead to several questions in the development of intervention policies. If state agencies continue to prioritize standardized high stakes tests such as TAKS (now STAAR), then consultants may be best suited to help school identified as poorly performing. However, if the state wishes to prioritize college readiness, perhaps a different type of monitor is best. These contextual differences illustrate that the causes of low performance may be linked to a variety of mechanisms that cannot be treated by a one-size-fits-all intervention policy. Schools targeted for poor performance generally had higher levels of disadvantaged students and lower levels of resources. These schools may not be able to address performance issues in a manner comparable

to schools that serve advantaged students. This argument is further supported by the clear difference between failing public schools and failing charter schools. As charter schools likely face difficulties that are different from their public school counterparts, school-specific strategies may be necessary to help establish and increase performance in these organizations.

A number of items remain to be explored to develop knowledge of turnaround that can be applied to multiple types of public organizations. While a turnaround strategy, such as monitoring, may prove unfruitful for one type of organization, findings may vary across organizations outside of K-12 education. Additional research is needed to determine when monitoring is more or less likely to work. Further, there exists a need for policy makers to consider the external constraints on organizations as accountability policies are implemented. More effort may be needed to select turnaround strategies on an organization-specific basis to gain maximum utility from interventions.

Finally, other types of strategies should be similarly analyzed across a number of organizations to better determine matches between turnaround strategy, internal management, and external resources and constraints. Time dimensions may prove to be especially important in the likelihood of an organization to improve performance. If poor performance can be targeted earlier, chances for survival may increase. However, if performance is allowed to slide for a number of years, turnaround may become too costly. In sum, further exploration of public organization failure and turnaround will prove particularly helpful in pushing forward knowledge of public policy and performance accountability. Replication of this empirical approach through large-N studies may prove to result in generalizable findings that are important for both the short and long term success of public organizations.

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