

Boston Public Schools Operational Review

April 2015

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This report was done as part of a review at the request of the Mayor's office in collaboration with the district. Findings are preliminary and indicate potential options for leadership consideration

What this work IS

- Exploration of potential options to improve student achievement, lower district costs and drive operational efficiency
- Estimates of ranges of cost reductions to identify magnitude of potential reinvestments made available through various options
- Collaborative idea generation and discussion with district to bring insights to light

What this work IS NOT



- These are not recommendations
 - Further analysis is required to identify specific opportunities and to implement
 - Public conversations about tradeoffs required for many options
 - Strategic process to weigh costs and benefits of options would be needed to transform to recommendations
- Exact analysis to predict how much money the district will have to reinvest to support students

The core focus of this review is on student outcomes in Public Sche Public Sche Process of this review is on student outcomes in pursuing improved operational effectiveness and reduced costs, all while engaging and considering the needs of a broad range of stakeholders



Opportunities for BPS have been prioritized while keeping all of these factors in mind

Multiple considerations are essential

- Ultimately, improved student outcomes is the goal of any effort to reduce cost and inefficiency and reallocate those funds where they can do more for students
- Beyond students, considering the impact on teachers, parents, and other stakeholders is critical to identifying the most beneficial and feasible improvements



Glossary of terms



Term	Definition
English Language Learner (ELL)	Students whose native tongue is not English and have not achieved fluency in English appropriate with their grade level
Students with Disabilities (SWD)	Students who have been formally evaluated by BPS and have been found to have a disability that requires additional resources to meet the student need, beyond a traditional general education setting
Inclusion	Inclusion classrooms are classrooms that support a mix of the general education and special education populations and is research proven to be a better approach to special education for the entire student population
Individualized Education Plan (IEP)	When a student is classified as needing Special Education, an IEP is designed by the school team to meet that student's needs
Occupational Therapy / Physical Therapy (OTPT)	OT is individualized support for students to help them acquire basic skills for daily living (e.g., self-grooming, self-feeding, self-dressing); PT is individualized support for developing motor skills (e.g., walking, jumping, lifting)
Food and Nutrition Services (FNS)	FNS is the department responsible for delivering food to all BPS students
Office of Instructional and Information Technology (OIIT)	OIIT is the BPS department responsible for delivering the technological services and hardware to the employees and the students of the district
Pull-out vs. push-in	Current special education practices in BPS require the "pulling out" of students from general education settings to receive additional resources; a "push in" method leaves the student in the general education classroom, while ensuring that the resources meet her/him where they are

Executive summary



- BPS is a highly diverse public school system, with demographics much different from the City
 of Boston and SWD and ELL populations that outpace state and national averages
- While BPS pushes 55% of its funds to the schools, only 36% reaches all students in the classroom¹; BPS has a significant number of underutilized buildings and classrooms, spreading funds thin across the system and lessening the impact of resources on a per pupil basis
- After a broad scan, the Steering Committee focused the work against four potential areas of opportunity
- 1) To concentrate resources more effectively for students, BPS can find ways to **right-size the district** to reflect current and projected BPS enrollment
- 2) Over a quarter of the BPS budget goes towards Special Education, meaning that small potential changes in student classification can translate to large funds for reinvestment and better learning environments for students. A move towards inclusion, currently underway, has a 12-year horizon that – if executed well – will improve special education student outcomes and could potentially lead to more funds available for reinvestment
- 3) As BPS transitions to a new superintendent and potentially addresses overextension issues, the BPS central office will have an opportunity to address some of the misaligned parts of the organization, driving performance and...
- 4) ...potentially capturing operational efficiencies in other areas like transportation, food services and maintenance

Source: BPS FY15 General funds

BPS' per pupil spend is higher than peer averages - 36% of that spend gets to all students in the classroom



FOR DISCUSSION

BPS Potential Opportunities



	Key facts
Opportunity to consolidate schools ~\$1.7 – 2.2m/yr plus ~\$4m one- time per school	 BPS enrollment down 17% over last 20 years and 50% since 1970s BPS currently has ~93K total physical seats with only ~54K seats filled The system is overextended with declining dollars stretched over same number of buildings and declining student could consolidating schools could reduce annual spend by ~\$1.7-2.2M per school consolidated (~\$700K from non-teaching changes) Building sales could bring additional one-time ~\$4M per school consolidated, while avoiding additional, unneeded CapEx or could generate substantial ongoing income from leasing redundant properties Right-sized system would concentrate more dollars in fewer schools, improving quality and breadth of student resource
Opportunity to revisit and potentially accelerate SPED reforms ~\$17-21M in FY16 ¹ and ~\$40-50M longer-term annually Opportunity to reorganize central office and non- teaching staff ~\$25-30M ongoing reduction	 Moving Boston in-line with state and national averages can help improve student outcomes and translates to ~\$5M saved for every % point decline Shifting provision of paras and specialists² can yield reductions of \$15-\$20M, but requires discussions with stakeholde The financial implications of the move to inclusion, already underway, are not well understood and need to be analyzed more deeply given the potential range of impact Revisiting the current model in light of a deeper financial understanding and considering other models that other systems have found beneficial for their students could result in cost reductions of \$40-50m on an ongoing basis versu today's costs Non-teaching staff to student ratios across the system are higher than peers and historic BPS levels, ~\$25-30M may be possible if staff levels realigned In early 2015, Superintendent had 13 direct reports, making system goal-setting, alignment and focus difficult. System goals were not tracked systematically, with a deep need for performance management systems to align central metrics that matter (e.g., number of students eating lunch, buses on time) with student outcomes and manage staff and system performance better. Incoming administration actively working to improve in these areas.
Opportunities to improve operations ~\$10-25m/yr	 Indicators of transport savings: BPS bus riders average a 0.16 mile walk to their bus stop, 59% of students walk less than a 0.25 mile, spend is ~10% of BPS budget, 20% of routes serve just 3% of students Moving to district-wide maintenance contract would align incentives with contractor and could save ~\$5M in annual maintenance costs² BPS is currently spending more per pupil on contracted meals, which student taste tests view as lower quality, and can improve participation, changes in delivery and participation could capture ~\$2-8M

1 While FY16 budget has been approved, some FY16 opportunities could still be pursued

2 Switching providers of services would be subject to the consideration of any agreements currently in place and the associated decision-making processes

1 Since 1994, BPS student population has declined 17%, but the number of schools has remained relatively constant



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1 The current 128 schools have enough physical seats to hold over 90,000 students, though BPS decisions on class size limits reduce the usable capacity below this figure

School capacities

Number of physical "seats"



NOTE: This reflects all schools, including BPS charters

METHODOLOGY: Rooms and expected student capacities per room were counted by the facilities team.

1 The extra seats are mostly well distributed across the district with an average of 68% utilization



1 Utilization calculated based on the number of students enrolled in a building vs. the theoretical capacity of the building which does not take into account BPS' approach to student teacher-ratio or the use of resource classrooms; this reflects all schools, including BPS charters



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1 Declining enrollment coupled with a stable footprint drives a lower student-teacher ratio than peers



1 These numbers include all students (e.g., SPED, ELL) across the peer set, so figures are comparable; BPS Facts At a Glance reports an average class size of 17.7 in general education, which is below state average of 18.8 and the contractually agreed to sizes ranging from 22 in PK-2 to 31 in grades 10-12

1 The non-teaching staff funds freed up would likely be consistent with what other systems have experienced



1 Closing Public Schools in Philadelphia - Lessons from Six Urban Districts, the Philadelphia Research Initiative, PEW Charitable Trusts, October 19, 2011, page 6





1 Consolidation could allow BPS to redirect ~\$1.7M per school before property sales

	Description	Prior cost	Expected cost after consolidation	Potential reinvestment made available
Consolidate classroom staff	 With fewer classrooms, BPS could commensurately reduce teaching staff The average teacher – student ratio goes from 1:12 to 1:13 or 1:16 	\$3.8m	~\$2.3-2.8m	~\$1.0-1.5m
"Foundation" for school staff	 The "foundation" money² is no longer needed by the school 	\$200k	~\$0	~\$200k
Average custodial support	 Custodial support is no longer required at the building but may increase by 30%¹ at receiving schools 	\$166k	~\$50k	~\$116k
Average building maintenance	 Maintenance is no longer required but may increase by 30%¹ at receiving schools 	\$191k	~\$57k	~\$134k
Average utilities	 The closed buildings no longer needs to spend on utilities (including electric, gas, water, and telecom) 	\$260k	~\$0	~\$260k
			Total	~\$1.7- 2.2m

1 Assumed based on interviews

2 "Foundation" money refers to the budget allocation that each school automatically receives for basic infrastructure/operation(e.g., to cover principal costs)



1 While the new funds will not be easy to unlock, they can help bring the promise of a better future for BPS



Potential areas that could be funded

- Expanded before- and after-school programming for students in all schools
- Guaranteed set of electives or specials at all schools (e.g., Physical Education, Art)
- Greater portfolio of teacher supports and resources (e.g., instructional coaches, first-year mentors, counselors)
- Funds to build a state-of-the-art high school and state-of-the-art lower schools

This illustrates potential areas that could be funded through realized reductions. The actual use of any funds saved would be decided in the same manner in which budgets are developed and funds are allocated today.



1 Additionally, BPS could recognize many other positive gains from consolidating schools





2 SPED is ~25% of the BPS spend and 73% of its costs are in





2 BPS schools are classifying students at widely variable rates





* Schools with less than 200 student enrollments

BPS SPED classification is above MA average, well above nation





Source: MA Department of Elementary and Secondary Education, 2013; this includes all 409 "districts" in MA, many of which are individual schools; the state average remains unchanged when just traditional districts are considered

2 BPS is increasing special education inclusion, a strong research-based decision designed to benefit students with disabilities

Inclusion is good for both special education and general education students

- A 2014 state of Massachusetts report found that across the state, "students with disabilities who had full inclusion placements appeared to outperform similar students who were not included to the same extent in general education classrooms with their non-disabled peers."¹
- A 2013 BPS study found that general education students in inclusion classrooms performed 1.5x better on ELA MCAS and 1.6x better on Math MCAS²
- BPS had just 57% of SWD in inclusion classrooms in 2013

BPS is expecting to move to full inclusion as a district by 2019

- BPS aspires to move up to 80% of SWD into inclusion classrooms, leaving just those with disabilities that make inclusion inappropriate in substantially separate classrooms, movement of roughly 3,400 students
- The BPS plan is to create more inclusion classrooms at the K-1 and K-2 levels, to grow inclusion from the bottom, while moving K-5 classrooms into inclusion a zone at a time, at the rate of one zone a year, over five years

1 Review of Special Education in the Commonwealth of Massachusetts: A Synthesis Report," August 2014 2 Office of Special Education City Council presentation, June 2014

2 The cost of migrating students from substantially separate classrooms into inclusion is highly dependent on two core assumptions

HIGHLY PRELIMINARY

Change in costs for transitioning sub-separate students into inclusion sensitivity USD millions

Average number of sub-separate students moving into each inclusion classroom ²										
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
New Gen Ed	5	240	136	84	52	31	17	5	-3	-10
classrooms	4	206	113	67	39	20	7	-3	-11	-17
needed per 10 inclusion	3	173	91	50	25	9	-3	-11	-18	-24
classrooms	2	139	68	33	12	-2	-12	-20	-26	-30
opened ¹	1	105	46	16	-1	-13	-22	-28	-33	-37

1 For example, 5 means that for every 10 new inclusion classrooms, 5 new General Education classrooms would need to be created to maintain compliance with the model

2 For example, 2.0 would mean that an inclusion classroom would typically be 18 General Education students and 2 Special Education students, whereas 4.0 would mean typically there would be 16 General Education students and 4 Special Education students in a classroom

2 Financial implications of supporting the transition of substantially separate students into inclusion vary significantly based on core assumptions and approach

Sub/Separate CostNew Inclusion CostNew Gen Ed Cost

ESTIMATED



Assuming new General Education classrooms needed 40% of the time, and 2.5 students on average moving into an inclusion room
 Assuming new General Education classrooms needed 20% of the time, and 4.5 students on average moving into an inclusion room
 Assuming ~150 new General Education classrooms, using a small group "pull-out" model with "pull-out" teacher supporting 20-35 students

3 Values survey reveals there is a desire for more accountability and less bureaucracy in the Central Office SURVEY CONDUCTED FEB. 2015



Most experienced values Most desired values Internal Politics (41) Being collaborative (39) 1. Bureaucracy (25) 2. Accountability (33) 3. 3. Accountability (15) Excellence (28) 4. Lack of shared purpose (14); 4. Equity (21) Customer focus (14) Least desired values Least experienced values Inconsistent (40) Efficiency (28) 1. 2. Equity (27) Bureaucracy (37) 3. Accountability (25); 3. Slow moving (31) Employee focus (25) 4. Silos (30); 4. Fear (12); Internal Politics (30) Trust (12) Therefore, BPS could consider

- Defining what accountability looks like for its Central Office
- Reducing the internal politics and bureaucracy currently experienced

1.

2.

1.

2.

3 In early 2015, goal alignment within departments was strong, but there was not strong consensus on what the District's goals were



"When we set our goals as a department, we make sure that we start with the district's goals and then determine what ours should be." – Cabinet Department leader

"I don't even know what the district's or superintendent's goals are [...] it's too unclear. Our only mission ... is to avoid lawsuits." – Cabinet Department leader

Strengths

- The employees in every department seem very well aligned with their departmental goals
- A few departments ensure that their departmental goals tie directly to the district's goals

Areas for improvement

- There is no consensus across the departments about what the district's goals actually are
- Some goals are shared by multiple departments (e.g., adjusting the liaison structure to better serve the schools) but there is little-to-no collaboration in accomplishing these goals leading to poor returns

Great examples in departments:

 Academics – Ensures that initiatives and goals directly tied to the district's goals

Results from BPS Central Office Survey

Departmental goals align with district's top goals and priorities, number of respondents



Direct-report employees well aligned with my top goals and priorities, number of respondents



Strong accountability for reaching individual

goals, number of respondents



3 In early 2015, the Central Office organization pyramid was standard with some exceptions



Observations

- BPS had an average of 4.0 direct reports per manager (2-15 across departments)
- Departments vary in how many Assistant Directors they have (0-9 per department)
- While the pyramid looks mostly standard, there were 13 direct-reports at the top level

Source: BPS Org Charts for all departments reporting to the Superintendent (with the exception of Operations and detail below the first three levels for Comp. Student Services)



3 BPS is within range of peers, but still supports a lower than average student to non-teaching staff ratio across the system



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Potential action items



9	Decisions / actions
Opportunity to consolidate schools ~\$1.7 – 2.2m/yr plus ~\$4m one-time per school	 Given calendar constraints, strategic decision to address district overextension and consolidate schools in next few years would need to happen immediately for planning to begin
2 Opportunity to revisit and potentially accelerate SPED reforms ~\$17-21M in FY16 ¹ and ~\$20-40M longer-term annually	 Given the calendar and union restrictions, a decision on outsourcing paraprofessionals and specialists would need to be made immediately, with potential repercussions weighed Develop robust understanding of financial implications of approach to inclusion Reassess pace, approach, and transition plans for SPED inclusion strategy with the aim of shortening time to benefits for students Decisions to reassess SPED rates and classifications would require decision and cultural shifts
3 Opportunity to reorganize central office and non- teaching staff ~\$25-30M ongoing reduction	 Decisions around central office and non-teaching staff alignment would need to happen as footprint considered to align support as befits new district Consider building capacity to execute and support near-term priorities while aligning staff around clear goals Review current non-teaching staff allocations and ratios to understand benefits to students and assess opportunities for reallocation
Opportunities to improve operations ~\$10-25m/yr	 Dive deeper into specific levers to identify and realize transportation savings Outsourcing custodial and maintenance services can capture savings immediately, but may require a reduction in unionized employees Moving toward in-housing all food services needs to be researched and aligned with capital planning process

Overview of BPS opportunities

Confidential

Captureable, but time-sensitive



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Captureable

	Activi	ity		Potential opportunity	Near- term	1-2 years	3+ years	One- time
Opportunity to consolidate	• Co	onsolidate	schools	~\$1.7m /yr per school consolidated (~\$700K non-teaching costs)			\checkmark	
schools	 Se 	ell/repurpo	se school buildings	~\$4M one-time per school			\checkmark	
Opportunity to		evisit curre	ent approach to inclusion and	up to ~50M /yr after full phase-in (cur	r. FY26)		\checkmark	
revisit and potentially			ofessional ² provision	~\$9-11M /yr	\checkmark	\checkmark	\checkmark	
accelerate SPED reforms	 Sh 	nift provisio	on of related services ²	~\$8-10M /yr	\checkmark	\checkmark	\checkmark	
Opportunity to reorganize central office and non-teaching staff		•	aching staff across the system n-line with peers	~\$25-30M /yr		\checkmark	\checkmark	
)	Tran	nsport	 Reduce current \$113M transpor budget by 5-10% 	t ~\$6-11M /yr	\checkmark	\checkmark	\checkmark	
	Food		 Target meal participation to improve revenues 	~\$5M /yr	\checkmark	\checkmark	\checkmark	
Opportunity to improve operations	Serv	vices	 Centralize food preparation 	~\$1-3M /yr		\checkmark	\checkmark	
	Mair		 Reduce spend on night custodian workers² 	up to ~\$3M /yr	\checkmark	\checkmark	\checkmark	
	tenance • C		 Contract all maintenance with a single contractor² 	∼\$1-3M /yr	\checkmark	\checkmark	\checkmark	

1 While FY16 budget has been approved, some FY16 opportunities could still be pursued

2 Switching providers of services would be subject to the consideration of any agreements currently in place and the associated decision-making processes

APPENDIX



The approach to the operational review shifted from a broad scan to deep dives



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Progress review

...informing Steering

Committee prioritization...

From data and interviews,

the Steering Committee considered the size of the

opportunity in terms of

From this approach, 11

2 targets

areas emerged in two

benefits to students, cost

reductions, and efficiency

groups as potential Phase

A high-level scan informed the Steering Committee's prioritization of areas for deeper exploration



CONCEPTUAL

...leading to prioritized areas for deeper exploration

- District overextension
- Special Education
- Central Office/Organization
- Additional operational savings

FP 25 ood servic	es			Opportunity type (1) • FY14: 828M	DRAFT			
		foit, where most districts r g half internally and half th gh end of peer comparison						
very high for those	Food services curves and services and services and services curves and services and s		cit, where most districts r	FY14: 8 FY14: 9 Toughly break even rough vendor, Whitsons	ntr too	RAFT		
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				 BPS is delivering meals, but the revenues, while also developing the revenues. 	g a better system of accountability to	an operational review and mapping o capture available revenues	can identify the areas that onlie io	

High-level scan across 25 areas...