Headed to College

The Effects of New York City's Small Public High Schools of Choice on Postsecondary Enrollment

The Alliance for Excellent Education Rebecca Unterman March 11, 2015



Small Schools of Choice: Key Features

- Accessible to all students of all academic abilities
- Small in size and function with thematic focus
- Demanding "bottom up" proposal process emphasizing
 - Academic rigor, personalization, community/employer partnership
 - Competitive application process overseen initially by core team representing teachers/principals unions, foundations, DOE, and nonprofit intermediary
- Infusion of outside resources/intermediary start-up supports
- Predominantly located in economically and educationally disadvantaged communities



Small Schools of Choice: What We Found!

- SSC enrollees are more likely to graduate high school, obtain a Regent's diploma, enroll in and persist in college
- Every student subgroup benefits from SSC enrollment
- These effects are large and consistent year after year
- SSCs cost per graduate are lower than those of the HSs attended by control group counterparts:
 - Because SSC graduation rates are higher and fewer students require a fifth HS year



A Lottery-Based Experimental Research Design

- When an SSC is oversubscribed, an algorithm that matches student choices to schools uses a lottery-like process to break ties
- We used this process to identify 230 lotteries, involving 4 cohorts of incoming 9th-graders (2005, 2006, 2007, 2008), affecting 93 high schools and 14,608 students
- The lottery process created two nearly identical groups of students: one group of lottery winners who had an opportunity to enroll in the first SSC they competed for and another that did not



SSCs Increase HS Graduation and Boost Enrollment in Postsecondary Institutions

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Outcome (%)	Target SSC Enrollees	Control Group Counterparts	Estimated Effect
High School Graduation			
Graduated from high school	71.6	62.2	9.4**
Local diploma granted	13.2	11.4	1.8
Regents diploma granted	50.2	43.5	6.7**
Advanced Regents diploma granted	8.2	7.3	0.9
College Readiness English Regents exam score of 75 or			
above Math A Regents exam score of 75 or	42.1	35.8	6.3**
above	25.1	24.5	0.5
Enrolled in Postsecondary Institution	49.0	40.7	8.4**



Postsecondary Enrollment Rates Rise for All

Student Characteristic (%)	Target SSC Enrollees	Control Group Counterparts	Estimated Effect
Low-income: free/reduced-price lunch	47.7	38.1	9.6**
Race/ethnicity, by gender			
Black male	42.3	31.0	11.3**
Black female	53.4	46.4	7.0*
Hispanic male	43.4	36.8	6.6
Hispanic female	48.9	43.3	5.6
Other female	70.5	58.0	12.6*
8th-grade reading proficiency			
Did not meet standards (level 1)	26.2	22.9	3.3
Partially met standards (level 2)	42.7	34.1	8.5**
Fully met standards (level 3)	62.8	52.1	10.7**
Special education status	35.8	31.7	4.1
English language learner	49.6	41.1	8.4



The SSC Effect Persists Over Time (Cohort 1)

	Target SSC	Control Group	Estimated
In Follow-Up Period (%)	Enrollees (%)	Counterparts (%)	Effect (%)
Postsecondary enrollment			
<u> </u>			
Year 1	44.4	37.6	6.8*
Year 2	37.6	31.3	6.4*
			= 0.4
Year 3	31.7	25.8	5.8*
Fall of year 4	25.1	19.5	5.7
De Carada de la caración de la Cara			
Postsecondary degree completion			
Fall of year 4	3.7	2.3	1.4



Summary: Reform at Scale is Feasible

- Small, themed, non-selective high schools of choice can be an effective reform strategy
- As implemented in NYC, small schools significantly improved students' academic outcomes, graduation rates, and college enrollment
- Costs per graduate are actually lower because more students graduate and fewer students need a 5th year of HS
- NYC's results and approach to small school selection and design stands in stark contrast to initiatives in other locations



Looking into the Black Box of SSC Effectiveness

We asked principals and teachers at 25 effective small schools:

- What features of these SSCs do you believe are most responsible for their effectiveness?
- What do you believe are the most serious obstacles to creating and maintaining the effectiveness of these SSCs?



SSC Success Factors

Principals perceived:

- Their teachers (84%)
- Personal relationships (76%)

Teachers perceived:

- Personal relationships (88%)
- High academic expectations (80%)
- Teachers (64%)



SSC Challenge Factors

Principals perceived:

- Financial resources (64%)
- Space (44%)
- Academic expectations (40%)
- Staffing (36%)

Teachers perceived:

- Staff (88%)
- Academic expectations (40%)



Conclusion

Sustained district-wide reform at scale IS possible. But it's not easy, requiring:

- Strong partnerships among the district, unions, intermediaries, and funders
- Dedicated principals and teachers, backed by intermediaries and other supports
- Commitment to stay the course



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Why The Findings Are Important

- Scale and bold nature of the intervention
 - Opening 123 small, innovative, unscreened high schools in NYC's poorest neighborhoods and institutionalizing choice for all rising 9th graders
- Schools serve low-income, disadvantaged students of color
 - 93% minority; 83% low-income; 2/3rds behind grade level at HS entry
- Rigor of the evaluation
 - Lottery-based natural experiment with over 21,000 students and 105 high schools
- Process and criteria for selecting, starting and managing schools created high performing public schools staffed by union teachers



Factors Principals/Teachers Say Influence SSC Effectiveness

	Principal	Interviews	Teacher Focus Groups	
	Factor	Factor	Factor	Factor
Factor (%)	mentioned	mentioned first	mentioned	mentioned first
Teachers	84	52	64	8
Personal relationships	76	28	88	52
High academic expectations	24	4	80	12
Leadership	20	-	36	12
Collaboration	16	8	-	-
External partners	4	-	16	-
Data use/tracking students	-	-	12	8



Perceived Challenges to SSC Effectiveness

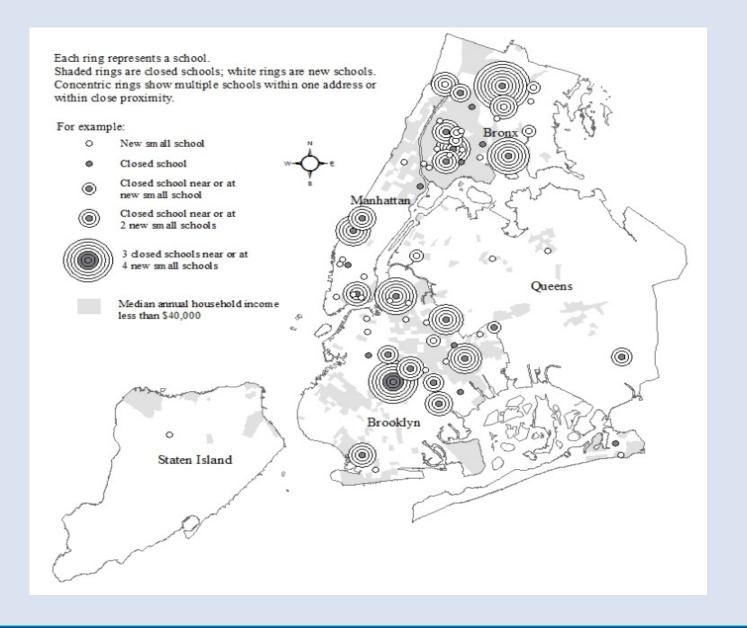
	Principal	Interviews	Teacher Focus Groups	
	Challenge	Challenge	Challenge	Challenge
Challenge (%)	mentioned	mentioned first	mentioned	mentioned first
Financial resources	64	28	28	24
Space	44	20	12	-
Academic expectations	40	16	40	16
Staffing	36	-	88	24
High-need student	24	4	24	-
Attendance	-	-	8	8
Socioeconomic challenges	28	12	28	4
Discipline	-	-	4	4
Other challenge(s)	100	20	100	20



SSC Graduates Are Not Disproportionately Enrolling in Less Selective Colleges

By Barron's Selectivity Level (%)	Target SSC Enrollees (%)	Control Group Counterparts (%)	Estimated Effect (%)
Enrolled in Post-Secondary	49.0	40.7	8.4**
By Barron's Selectivity for cohorts 1-4			
Four-year colleges			
Most competitive	1.2	0.5	0.7**
Highly competitive	1.6	0.4	1.2**
Very competitive	6.0	4.7	1.2
Competitive	8.3	7.2	1.1
Less competitive	3.3	2.1	1.2*
Non competitive	9.3	8.3	1.0
Two-year colleges			
Special/Unranked/Two-year	19.3	17.4	1.9





Relevance

Responses on school theme and external partnerships were mixed.

Theme may:

- limit the curriculum and college-readiness
- help attract like-minded teachers and students

Responses regarding the role of external partners were varied.





HS Graduation Rates: All Students Benefit

Target SSC	Control Group	Estimated
•	the state of the s	Effect
69.7	59.2	10.5**
67.2	55.0	12.2**
73.8	66.5	7.3*
66.7	60.3	6.4
72.0	62.6	9.4**
88 4	77 6	10.8
33.1	7710	
43.9	37.3	6.6
66.3	55.7	10.7**
		12.0**
00.0	73.3	12.0
63.4	50.1	13.4*
65.0	60.4	4.6
	73.8 66.7 72.0 88.4 43.9 66.3 85.3	Enrollees Counterparts 69.7 59.2 67.2 55.0 73.8 66.5 66.7 60.3 72.0 62.6 88.4 77.6 43.9 37.3 66.3 55.7 85.3 73.3 63.4 50.1

