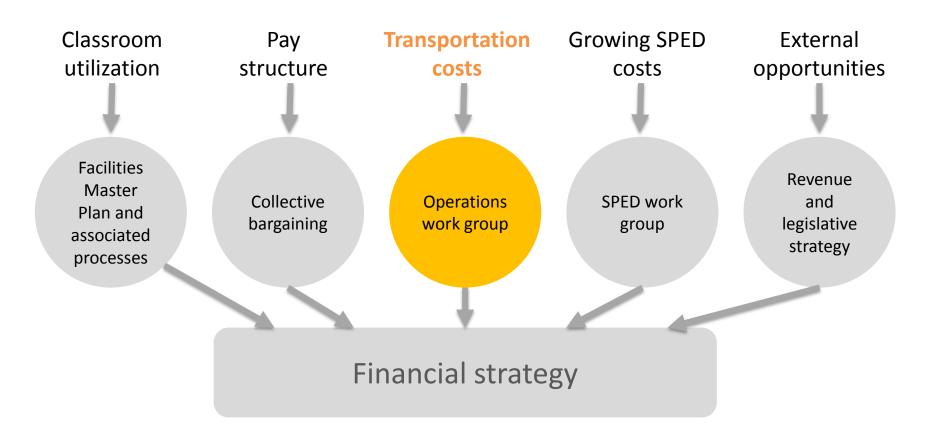


Long term transportation costs and tap card pilot

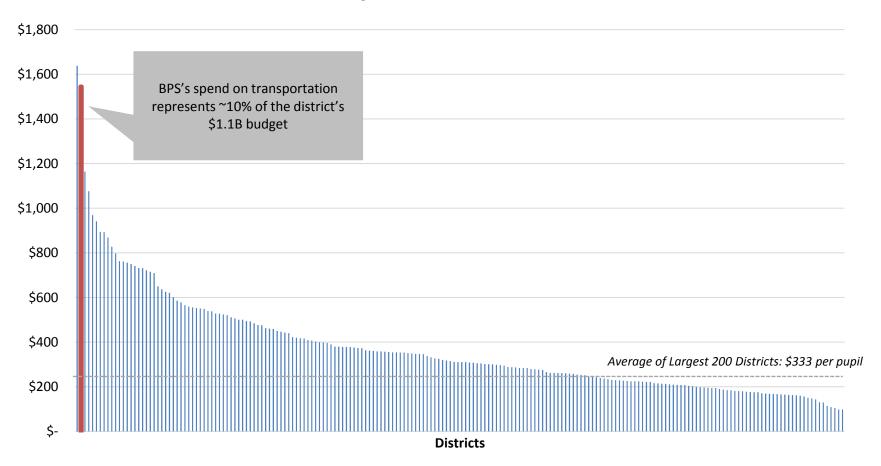
June 8, 2016

Transportation is one of five focus areas of the long term financial plan



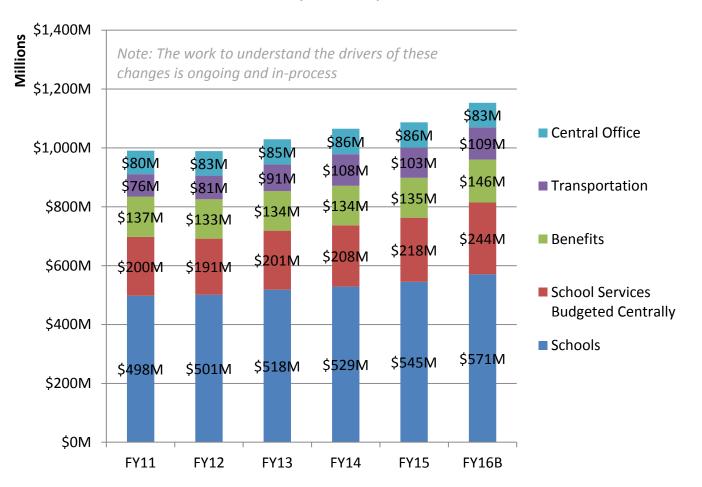
Of the largest 200 districts, BPS spends the 2nd highest amount per pupil transportation, which is over ~\$1.2K higher than the average

Per Pupil Transportation Spend, 200 Largest Public School Districts, 2013

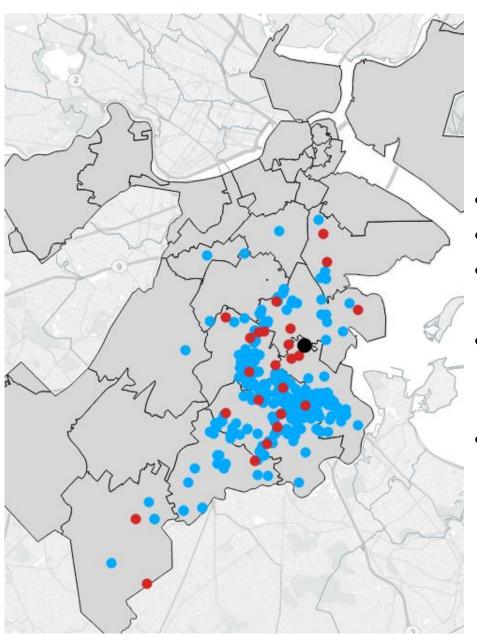


Total expenditures have been increasing 3.1% annually, with the highest growth seen in transportation, school services, and schools

Expenditures by Service Area, FY11-FY16B (All Funds)



% Annual Growth	% Change FY11-16	\$ Change FY11-16
0.8%	4%	\$3.1M
7.5%	44%	\$33.4M
1.3%	7%	\$9.0M
4.0%	22%	\$43.7M
2.8%	15%	\$73.1M
Total:		
3.1%	16%	\$162.4M



A Tale of 3 Schools

School A

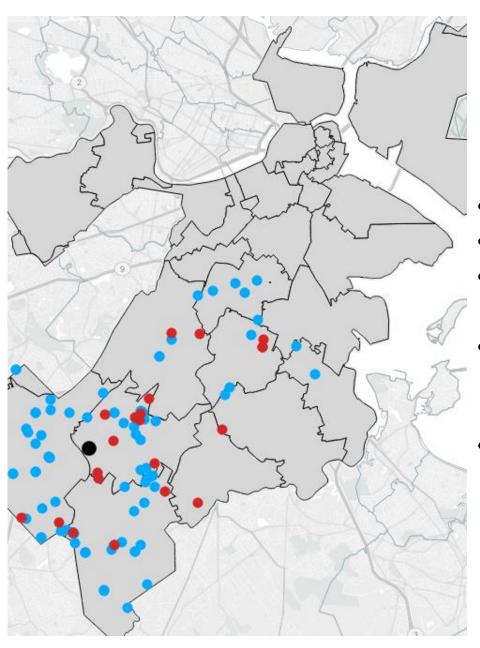
Students 330 high

% D2D 8% low

Zip Count 12 low

Estimated average cost per student transported: ~\$2300

 Ratio of estimated transportation costs to total school allocation: ~14%



A Tale of 3 Schools

School B

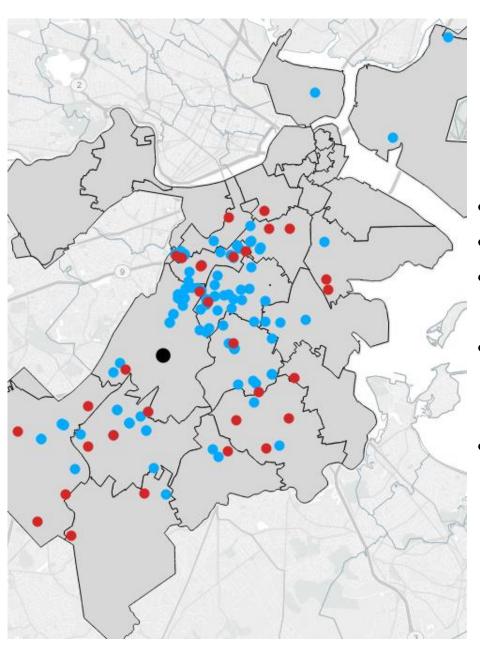
Students 107 low

% **D2D** 21% high

Zip Count 11 low

Estimated average cost per student transported: ~\$4700

 Ratio of estimated transportation costs to total school allocation: ~27%



A Tale of 3 Schools

School C

Students 145 low

% D2D 24% high

Zip Count 17 high

Estimated average cost per student transported: ~\$5400

 Ratio of estimated transportation costs to total school allocation: ~30%

There are three key areas of consideration for reducing transportation costs

Efficiency

How cost-effective we are in providing services (e.g. how well we fill buses)

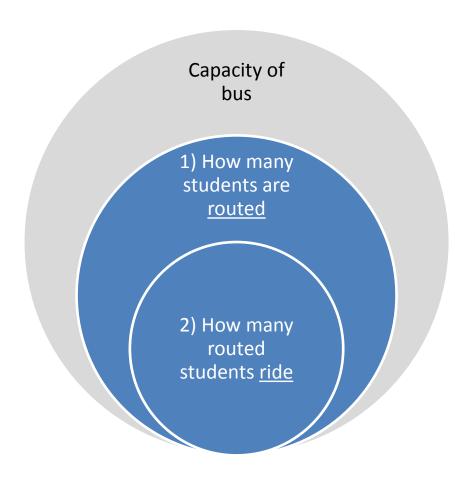
Contract and regulations

The rates and rules that govern our cost structure (e.g. our contract with bus drivers, our contract with Veolia, state regulations)

Policy

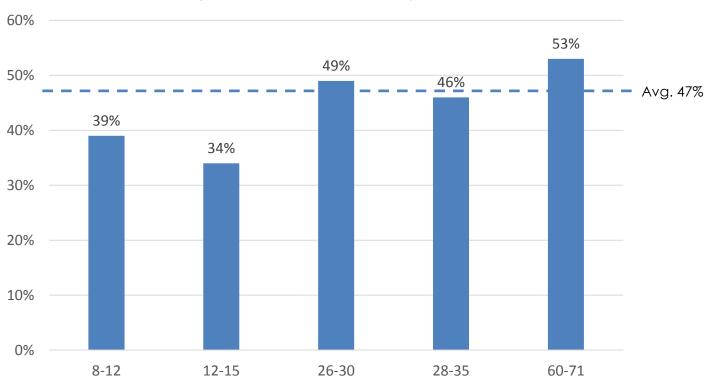
The choices we make on how much and what type of transportation to offer (e.g. our home-based student assignment system)

There are two ways to think about efficiency



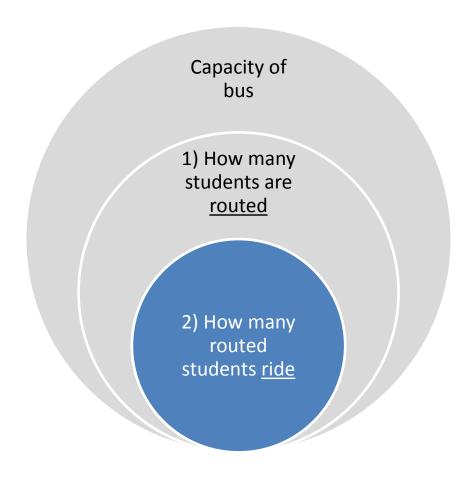
Buses are <u>routed</u> to be <50% full, regardless of bus size

BPS Average Utilization Rates by Vehicle Size



Source: BPS Operations Management team, data for 15-16 school year

The tap card pilot will provide data on how many routed students ride the bus







What are the current factors in our transportation system that limit overall flexibility?



We route once for the beginning of the year and then adjust routes once in October.



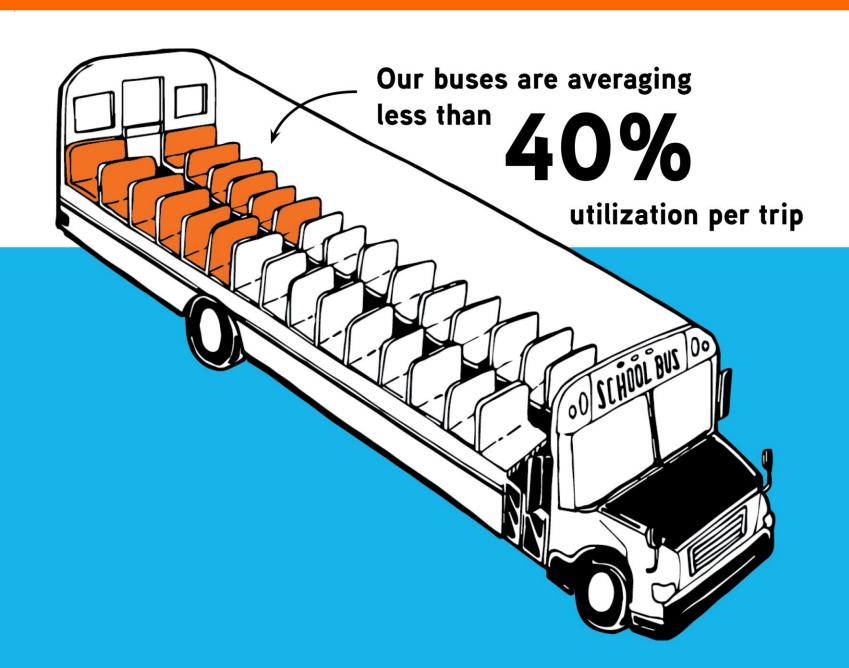
We have multiple school start times, and those times are not evenly distributed among bus trip 'tiers'.

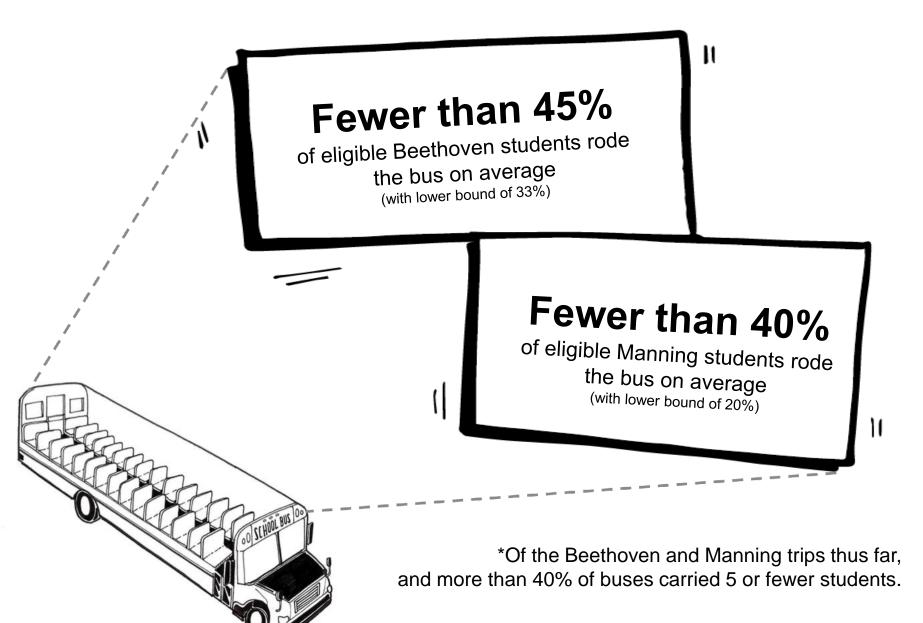


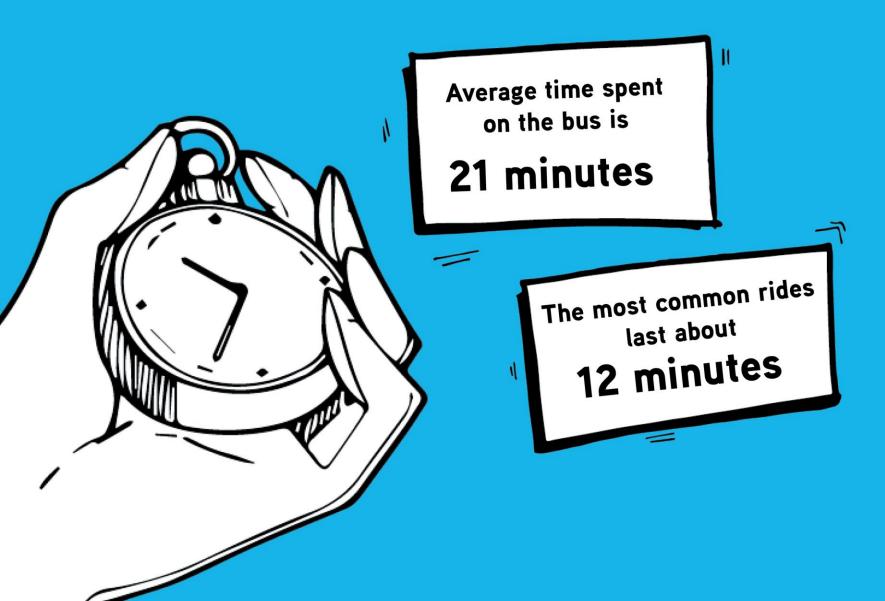
We own our buses, which limits our ability to experiment with vehicle type and size.



Our transportation opt-out timeline and process does not match with our routing timeline and process (see above).





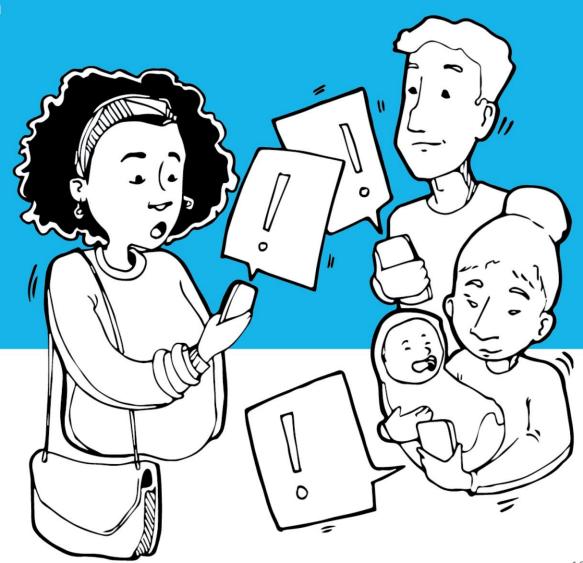


"I am eager to see the data in terms of ridership. I'm looking forward to seeing what we can learn from this pilot." "Kids love the responsibility of having the cards."

"The kids love that they are participating in the pilot. They know they are some of the only kids in BPS testing this out."



The parent / guardian notification app will keep everyone who is concerned about a student's safety informed and up-to-date.



BOSTON PUBLIC SCHOOLS

