

Enrollment Forecasts

SOMERVILLE PUBLIC SCHOOLS

APRIL 3, 2023

About FLO



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Demographic and Mapping Specialists

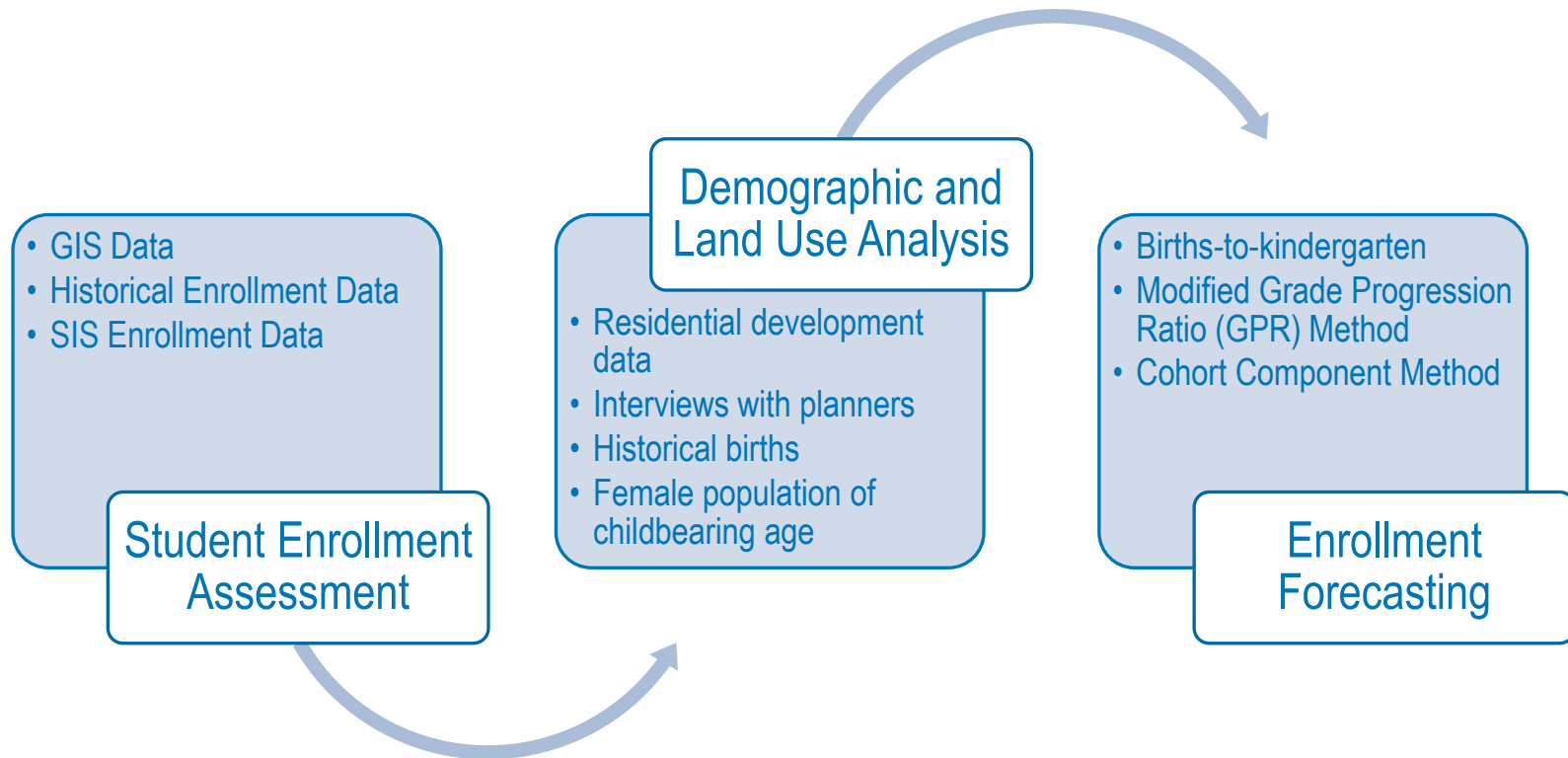
- Team of applied demographers and population geographers using industry-standard methods
- Experience with national, state, and local data sources
- Expertise in geospatial data analysis and visualization
- Great communicators and presenters to school district professionals and non-technical audiences

How We Help School Districts

- Student Enrollment Forecasting
- Demographic and Socioeconomic Analyses
- Enrollment Modeling (e.g., grade group reconfiguration)
- Attendance Area Boundary Reviews
- Long-range Facility Plans
- Transportation and Walkability Studies

Project Goal & Process

1. Develop ten-year student enrollment forecasts for Somerville Public Schools reported annually 2023–24 to 2032-33.



Project Timeline

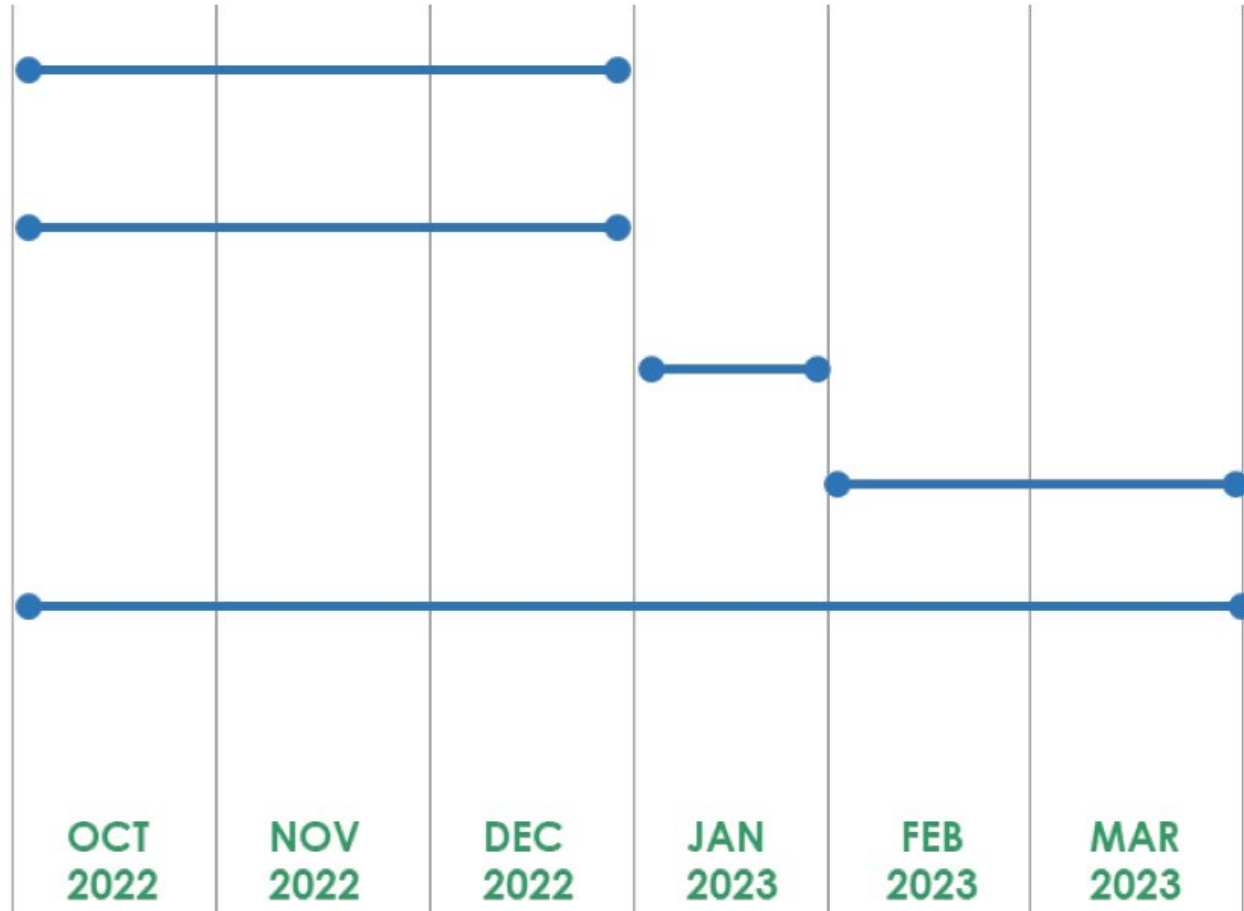
Task 1: Student Enrollment Assessment

Task 2: Demographic and Land Use Analyses

Task 3: Enrollment Forecasting

Task 4: Reporting and Presentation

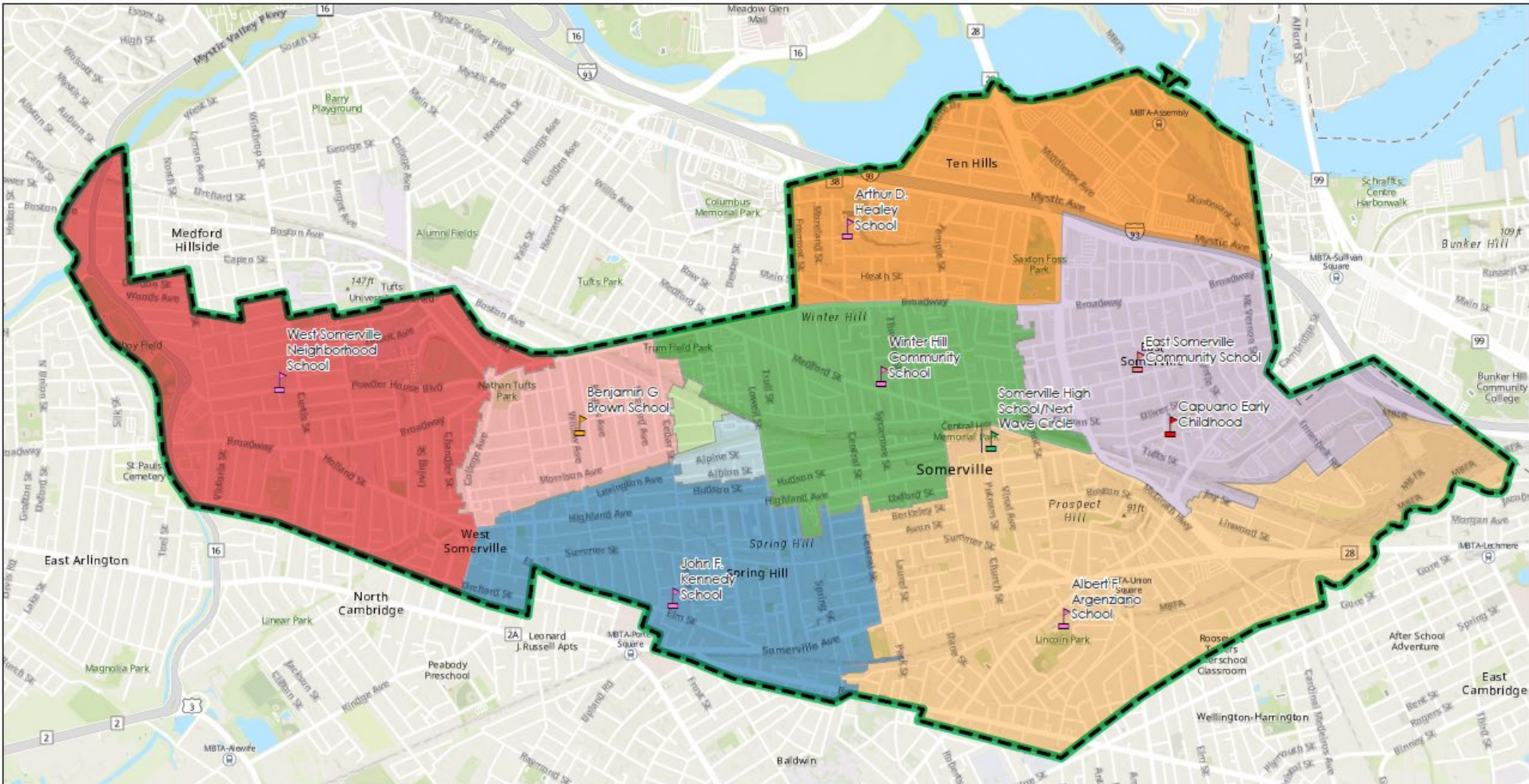
Task 5: Project Management and Communications























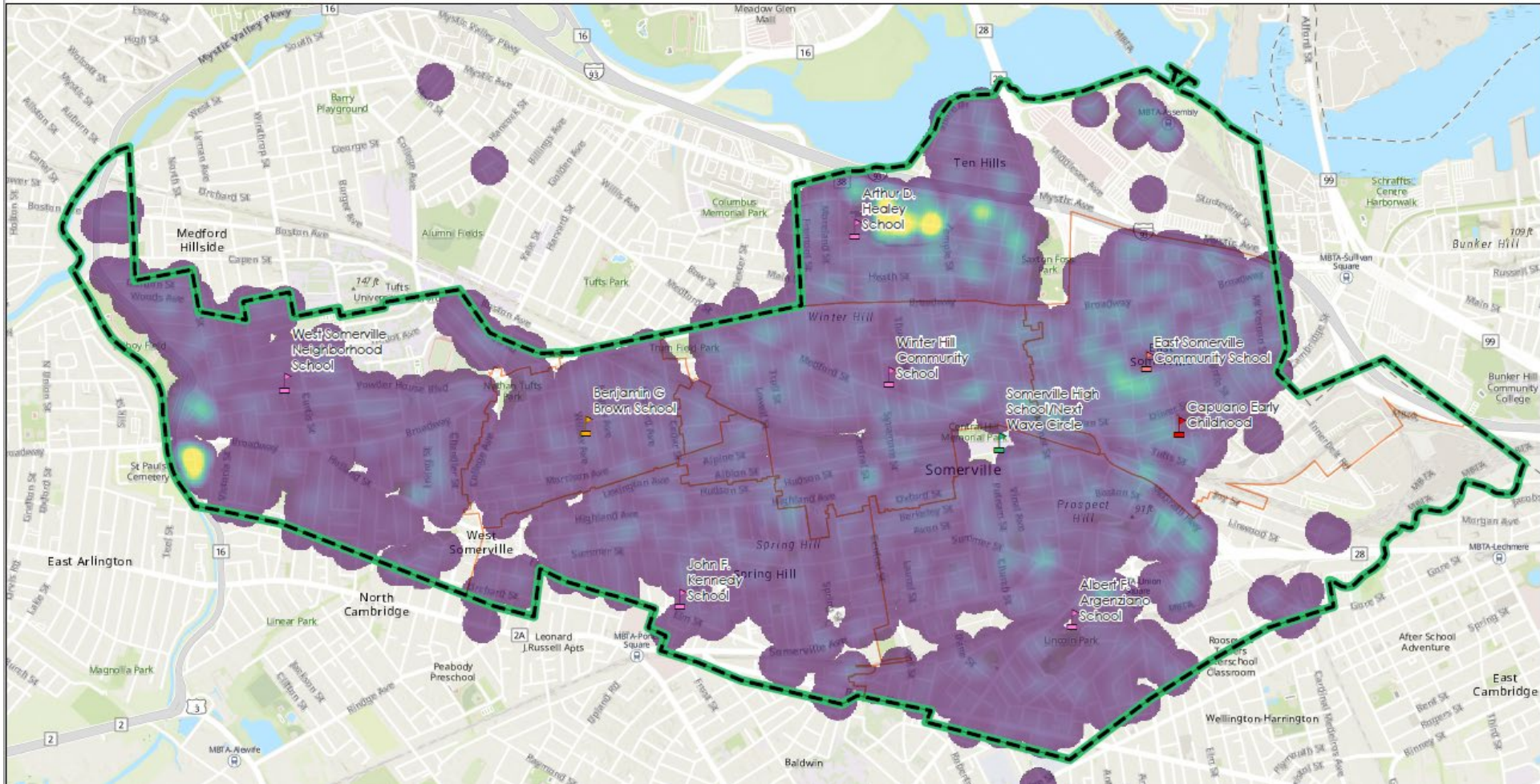
Student Enrollment Assessment

District Overview



	School Location		K-8		Brown K-5/West Somerville 6-8		West Somerville K-8
	K		9-12		Brown K-5/Winter Hill 6-8		Winter Hill K-8
	1-8		K-8 Attendance Area		East Somerville K-8		High School Attendance Area
	K-5		Argenziano K-8		Healey K-8		District Boundary
			Brown K-5/Kennedy 6-8		Kennedy K-8		

Student Density



School Location	K-8	District Boundary
K	9-12	K-8 Attendance Area
1-8	Student Density	High School Attendance Area
K-5	Sparse	
	Dense	

Historical and Current Enrollment

District-wide Totals

Grade	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2012-13 to 2022-23
PK	287	328	330	323	339	344	343	324	245	245	289	2
K	480	452	467	447	420	430	424	436	396	353	367	-113
1	442	455	419	422	429	389	419	416	400	362	397	-45
2	363	425	427	407	424	411	380	380	385	391	385	22
3	379	345	405	423	371	405	404	367	343	362	399	20
4	369	377	332	377	402	350	381	385	334	305	362	-7
5	375	351	346	313	374	378	346	372	365	325	297	-78
6	356	356	333	332	299	355	358	341	350	358	335	-21
7	276	337	345	303	336	300	347	353	322	343	357	81
8	339	263	338	348	297	327	287	346	338	321	341	2
9	379	378	322	378	383	332	342	333	350	399	360	-19
10	340	340	367	308	366	349	324	337	309	345	401	61
11	315	318	313	327	283	337	334	306	342	292	327	12
12	326	316	325	298	316	281	322	331	288	335	294	-32
SP	5	9	8	16	15	15	21	21	21	19	9	4
District Total	5,031	5,050	5,077	5,022	5,054	5,003	5,032	5,048	4,788	4,755	4,920	-111

Demographic and Residential Development Analyses

Land Use & Planning

City of **Somerville**

Statewide

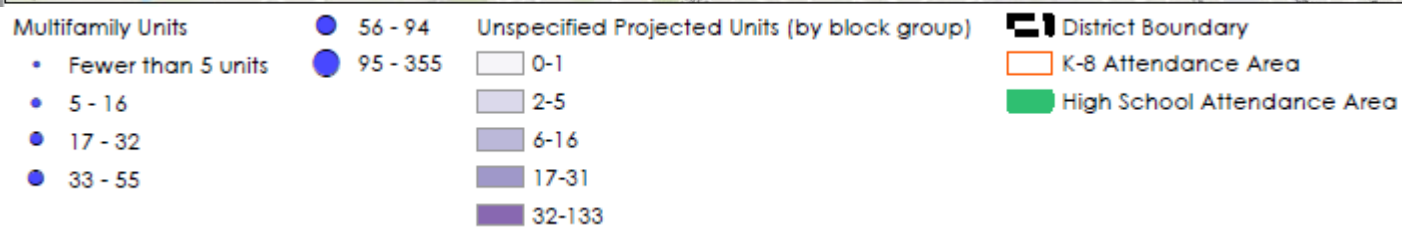
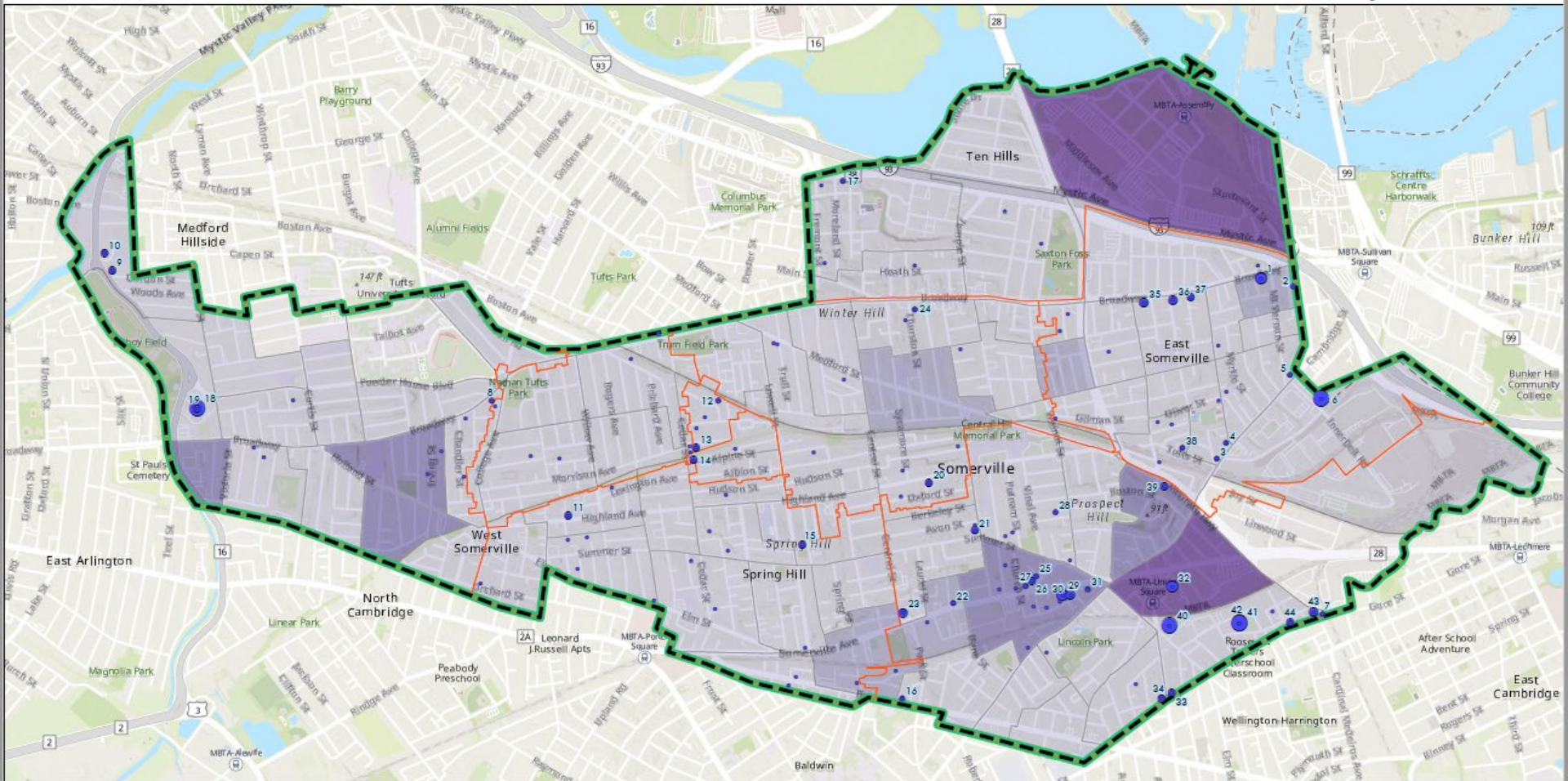
- City Limits

County & Municipal Planning Departments

- Parcels
- Zoning
- Comprehensive Plans
- Permits
- Future Developments
- Interviews with Planners



Residential Development





Enrollment Forecasts

Source Data

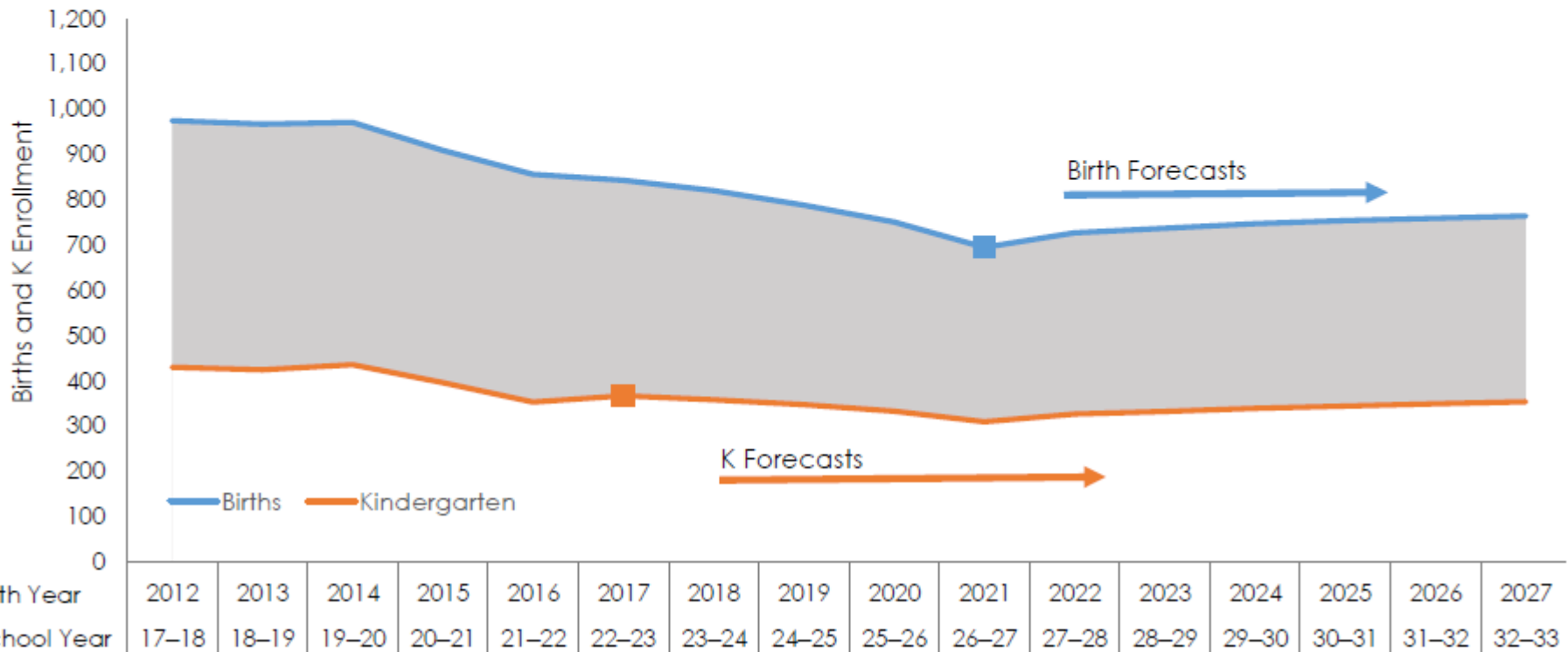
- SPS October Enrollment
- Massachusetts Dept. of Public Health (DOPH) births
- US Census (2010 & 2020) & American Community Survey
- Esri Demographics



Births & Kindergarten

Birth Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Forecasts					
Births	975	967	971	909	856	843	820	788	751	695	727	737	747	754	759	764

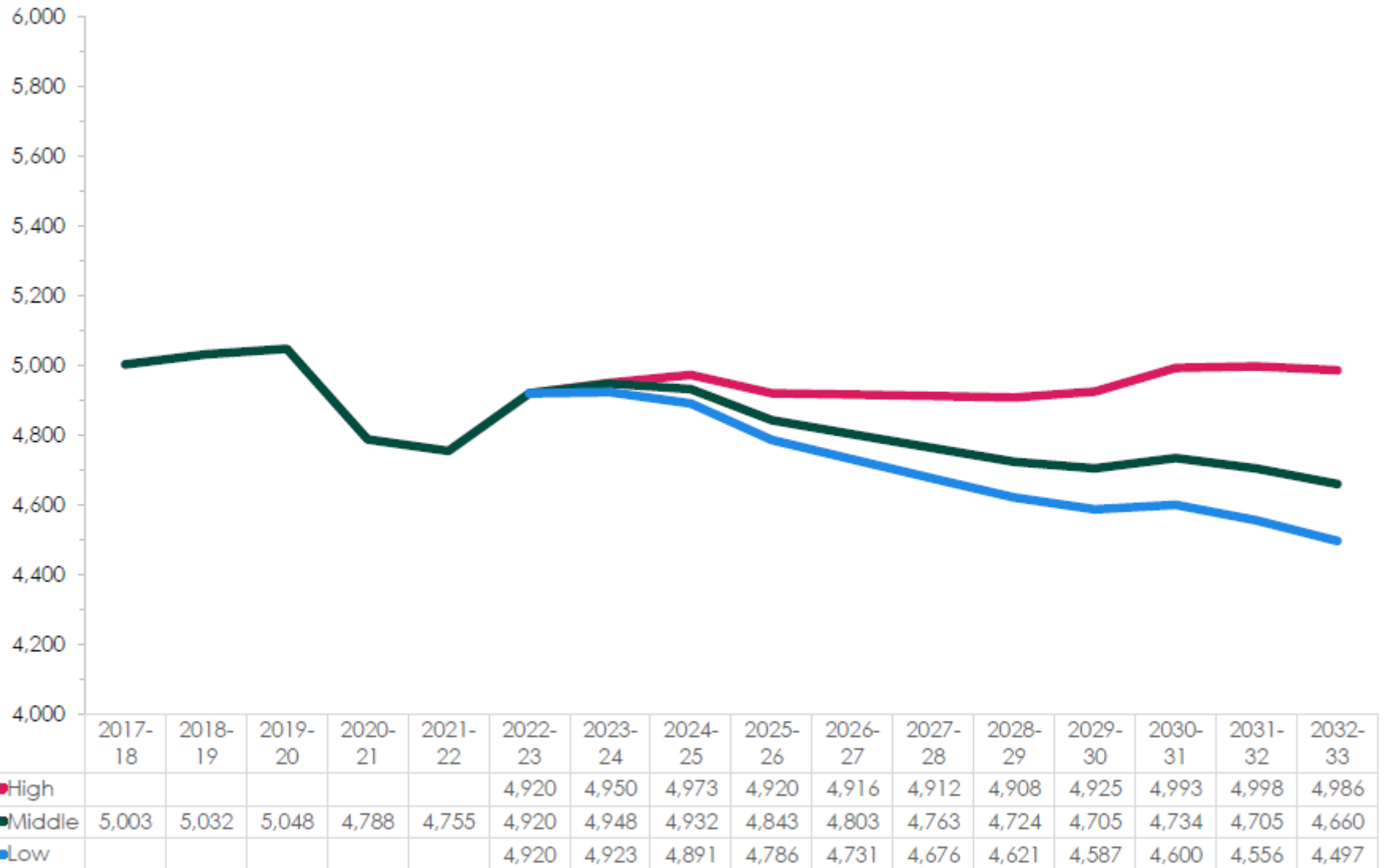
School Year	17-18	18-19	19-20	20-21	21-22	22-23	Forecasts									
Kindergarten	430	424	436	396	353	367	358	347	333	310	326	332	339	344	349	353
Ratio	44.1%	43.8%	44.9%	43.6%	41.2%	43.5%	43.7%	44.1%	44.3%	44.6%	44.9%	45.1%	45.4%	45.7%	46.0%	46.3%



Grade Progression Ratios

Grade Progression Ratios	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	3-year pre-COVID Average	Forecast GPR
K-1	0.93	0.97	0.98	0.92	0.91	1.12	0.96	0.98
1-2	0.96	0.98	0.91	0.93	0.98	1.06	0.95	0.99
2-3	0.96	0.98	0.97	0.90	0.94	1.02	0.97	0.97
3-4	0.94	0.94	0.95	0.91	0.89	1.00	0.95	0.95
4-5	0.94	0.99	0.98	0.95	0.97	0.97	0.97	0.98
5-6	0.95	0.95	0.99	0.94	0.98	1.03	0.96	0.97
6-7	1.00	0.98	0.99	0.94	0.98	1.00	0.99	0.99
7-8	0.97	0.96	1.00	0.96	1.00	0.99	0.98	0.99
8-9	1.12	1.05	1.16	1.01	1.18	1.12	1.11	1.13
9-10	0.91	0.98	0.99	0.93	0.99	1.01	0.96	1.00
10-11	0.92	0.96	0.94	1.01	0.94	0.95	0.94	0.94
11-12	0.99	0.96	0.99	0.94	0.98	1.01	0.98	0.97
Average	0.97	0.97	0.99	0.95	0.98	1.02	0.98	-

District-wide Forecasts



SPS Enrollment Forecasts

- Between the 2022–23 and 2032–33 school years, District-wide K–12 enrollment (October headcount) is forecasted to **decrease by 260 students**, from 4,920 to 4,660, or by 5.3 percent.
 - K–5 enrollment from 2,207 to 1,974 (10.6 percent decrease)
 - 6–8 enrollment from 1,033 to 904 (12.5 percent decrease)
 - 9–12 enrollment from 1,382 to 1,506 (9.0 percent increase)
- The decline is in response to an expected decline in PK and K enrollment as a result of the sustained decline in births occurring within the District and forecast GPRs that are generally below 1.00.
- While residential construction will act to moderate the decline, it will likely not be enough to completely offset the expected contraction.

Feedback?



Thank you!

