



# South Kingstown Schools Redistricting Kickoff Meeting Presentation

March 24, 2022

Presented by



# What We're Covering Today

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- Introductions
- Project Goals and Objectives
- Timeline
- Project Approach/Workflow
- Guiding Principles
- Town Background
- District Background
- Questions/Discussion/Component Building

# Introductions

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**Priya Sankalia,  
Project Manager**

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- 18 years experience
- Worked on 8 school redistricting projects in MA
- Point of contact; will manage project and team
- Boston based



**Ashley Tardif,  
Sr Geospatial Analyst**

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- Expert in data analysis and workflows
- Significant experience with school redistricting projects



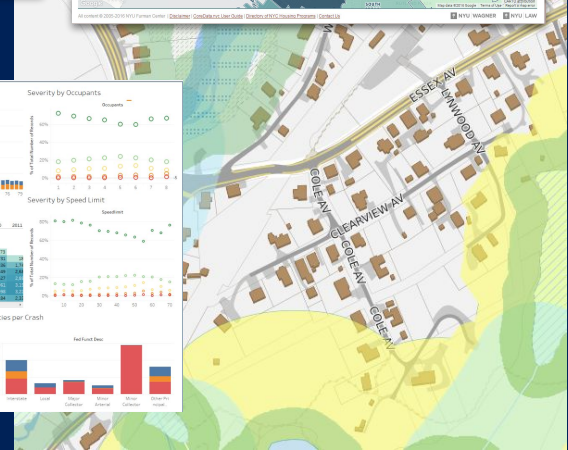
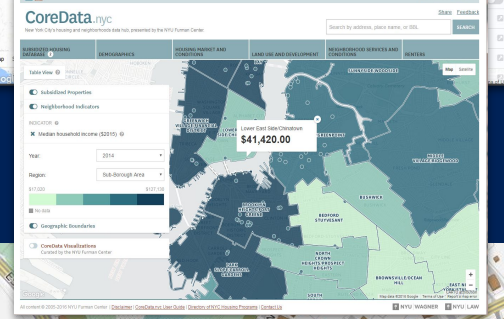
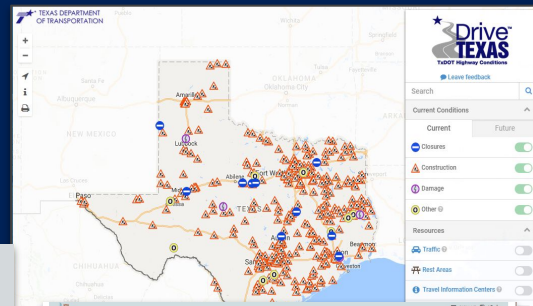
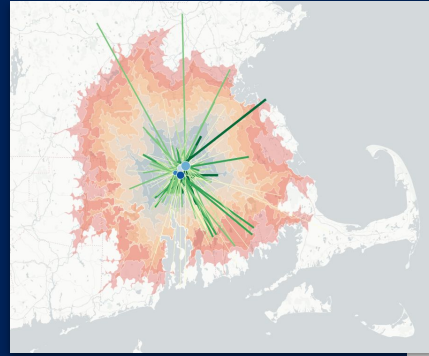
**Caitlyn Severy,  
Geospatial Analyst**

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- Specialist in data ETL (extraction, transformation, loading), analyses and cartography

# Introducing AppGeo

- Boston-based consulting firm delivering innovative geospatial solutions since 1991
- More than a technology company; We understand strategy, process, and coordination
- Deep expertise with geospatial analysis, visualization, and application development
- Worked with hundreds of New England communities (including Town of Plymouth)
- 10 New England School Redistricting projects
- Committed to Project Management (7 PMPs + PMO)



# Project Goals & Objectives

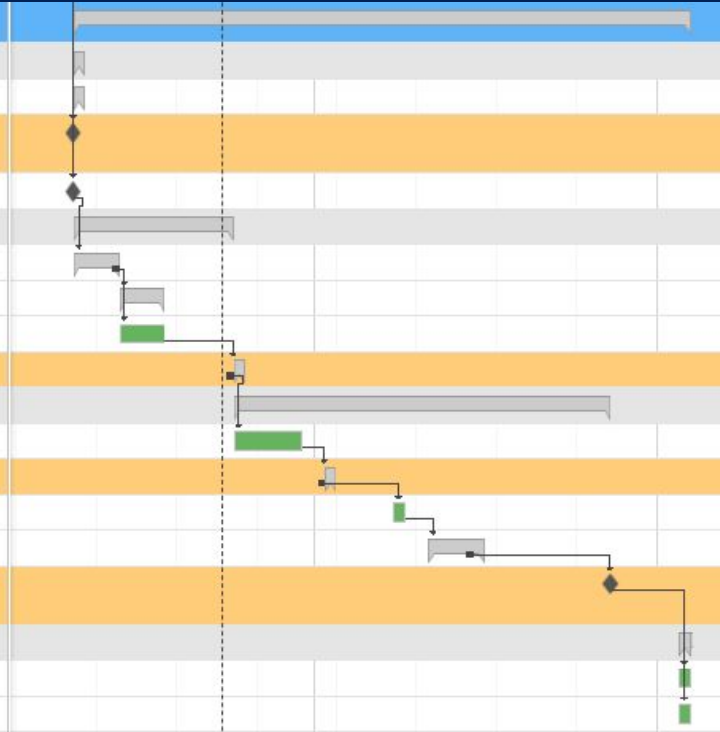
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The district has seen declining enrollment and is looking to consolidate from 4 elementary schools to 3 elementary schools with a view at using resources optimally. The project goals are:

- To balance class sizes to maximize use of classroom space for efficiency and the best interest of programming.
- Evaluate and adjust district boundaries to create district-wide enrollment balance with the new configuration.

# Timeline

South Kingstown RI School Redistricting		03/10/22	05/03/22	38d		
- Getting Started & Project Initiation		03/10/22	03/10/22	0		
- Project Initiation		03/10/22	03/10/22	0		
Conduct Project Initiation Meeting (phone call)		03/10/22	03/10/22	0	7FS +2d	AppGeo & WPS
Confirm Project Plan and Timeline		03/10/22	03/10/22	0	7FS +2d	AppGeo
- Data Gathering & Analysis		03/11/22	03/24/22	10d		
+ Gather Digital Data to provide AppGeo		03/11/22	03/14/22	2d		
+ Process data for background review		03/15/22	03/18/22	4d		
Develop presentation for Kickoff		03/15/22	03/18/22	4d	15	AppGeo
+ Redistricting Committee Meeting - Kickoff Meeting		03/24/22	03/24/22	0		
- Build Review & Revise Scenarios		03/25/22	04/26/22	23d		
Create initial scenarios share digitally with committee		03/25/22	03/30/22	4d	31	AppGeo
+ Redistricting Committee Meeting (Virtual)		04/01/22	04/01/22	0		
Incorporate comments and create final scenario		04/08/22	04/08/22	1d	36FS +4d	AppGeo
+ Prepare Deliverables		04/11/22	04/15/22	5d		
School Committee Meeting presentation		04/26/22	04/26/22	0	39FS +8d	AppGeo & SKSD
- Final Delivery of Maps		05/03/22	05/03/22	1d		
Incorporate feedback and finalize maps		05/03/22	05/03/22	1d	41FS +4d	AppGeo
Deliver final pdf maps for sharing with community		05/03/22	05/03/22	1d	41FS +4d	AppGeo



# Our General Approach

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**COLLABORATIVE**



**RESPONSIVE  
& FLEXIBLE**



**POWERFUL  
VISUALIZATION**

# Overall Project Approach

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## Data Gathering & Processing

Data gathering and processing including geocoding current student locations and getting an understanding of the problem to solve

Setting up workflows to process data

## Component & Scenario Building

Identifying discrete areas that become components or the building blocks for scenarios;

Collaboratively building scenarios

## Demographics & Scenario Evaluation

Demographic study using school data  
Evaluating scenarios against considerations and all other information

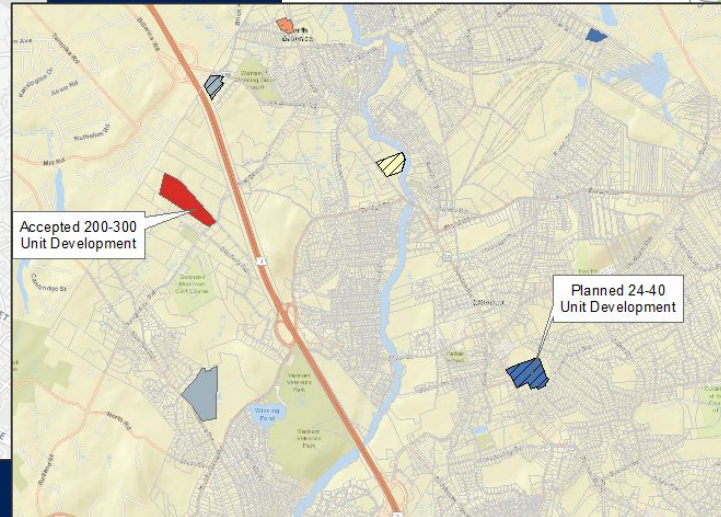
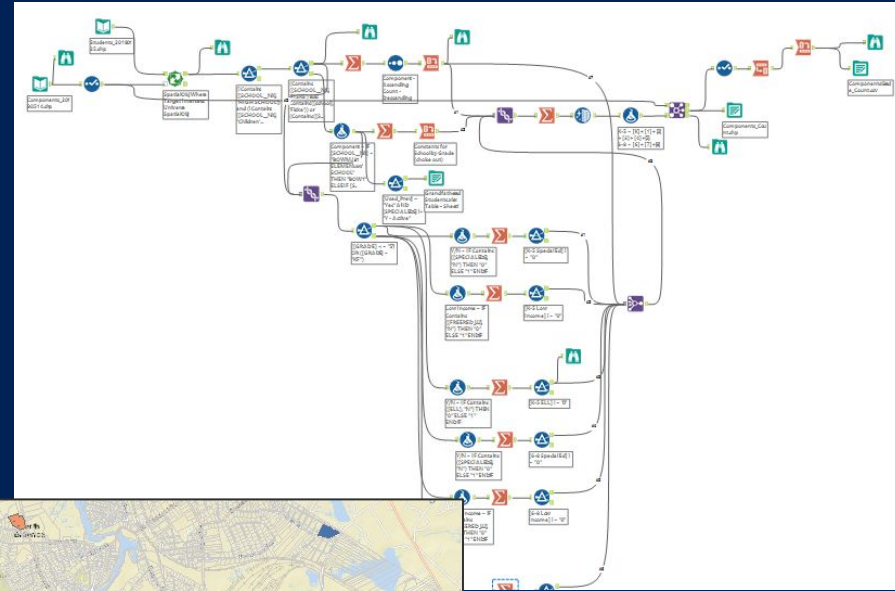
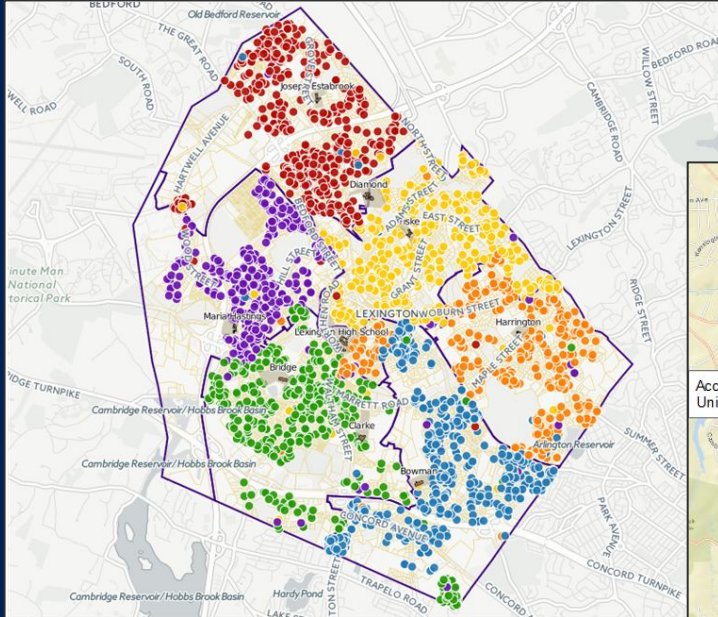
## Community Communication & Presentations

Powerful visualizations and presentations for community meetings and communication



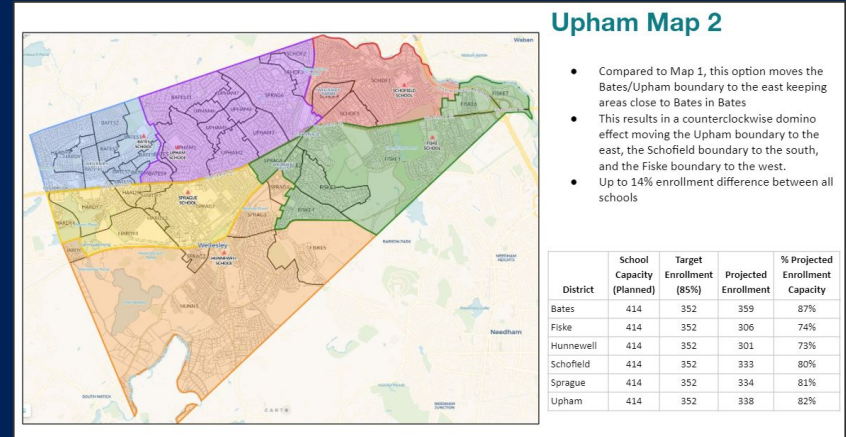
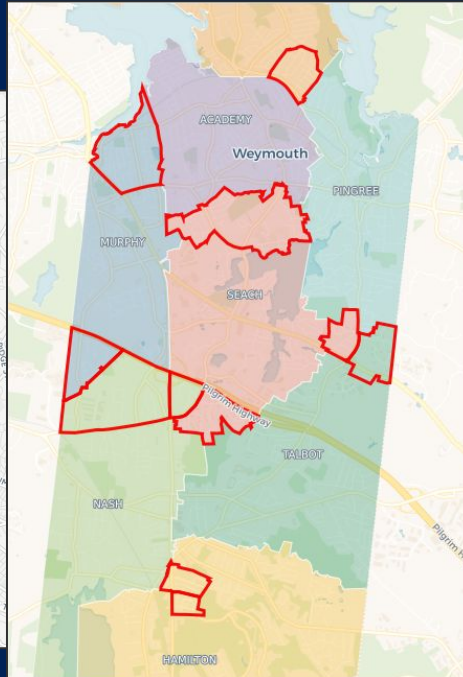
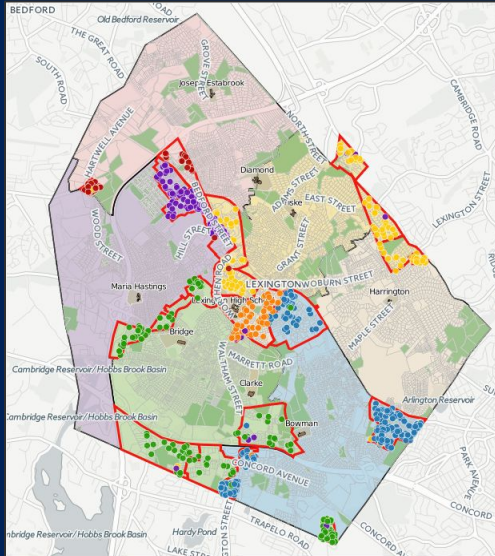
# Data Gathering & Processing

We geocode current student data, confirm district boundaries, analyze demographic information (census), and consider development plans.



# Component & Scenario Building

Components are building blocks that give us the tools to build scenarios. Scenarios are then built collaboratively using redistricting tools



We present the outcomes including before and after scenario implementation, percentages, totals based on capacity, equity, drive time analyses, etc. Demographics are crucial in this process.

# Demographics & Scenario Evaluation

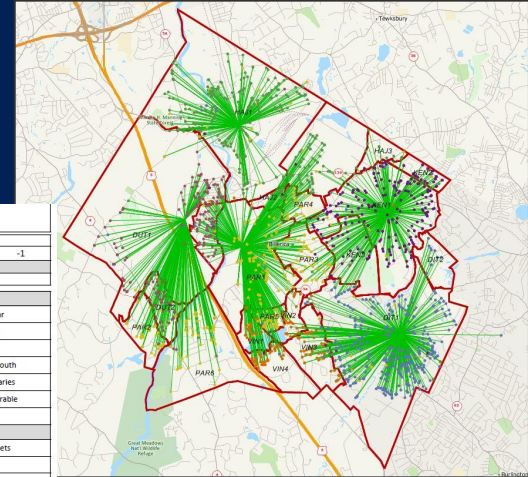
Scenarios are evaluated against the considerations, identifying pros and cons of each scenario. There are many ways to evaluate scenarios - create an evaluation matrix or list pros and cons but reasoning for picking scenarios should be explained

## Scenario Comparison Matrix

Guiding Principles Met	SCENARIO 1C	SCENARIO 2	SCENARIO 3
Keeps neighborhoods together	<p><b>YES</b></p> <ul style="list-style-type: none"> <li>Only large pockets of students moved</li> <li>Keeps all Vining students together</li> </ul>	<p><b>YES</b></p> <ul style="list-style-type: none"> <li>Small number of students moved</li> <li>Keeps all Vining students together</li> </ul>	<p><b>YES</b></p> <p>Small number of</p>
Middle School split eliminated	<b>YES</b>	<b>YES</b>	
Minimize physical distance	<b>YES</b>	<p><b>NO</b></p> <p>W of Country Club walkers to Kennedy will be bussed to Ditson</p>	
Additional considerations	Balances middle school enrollment between the 2 schools		

CRITERIA FOR EVALUATION OF SCHOOL DISTRICT AND BUFFER ZONE OPTIONS  
DRAFT CRITERIA EVALUATION MATRIX MAY 19, 2015

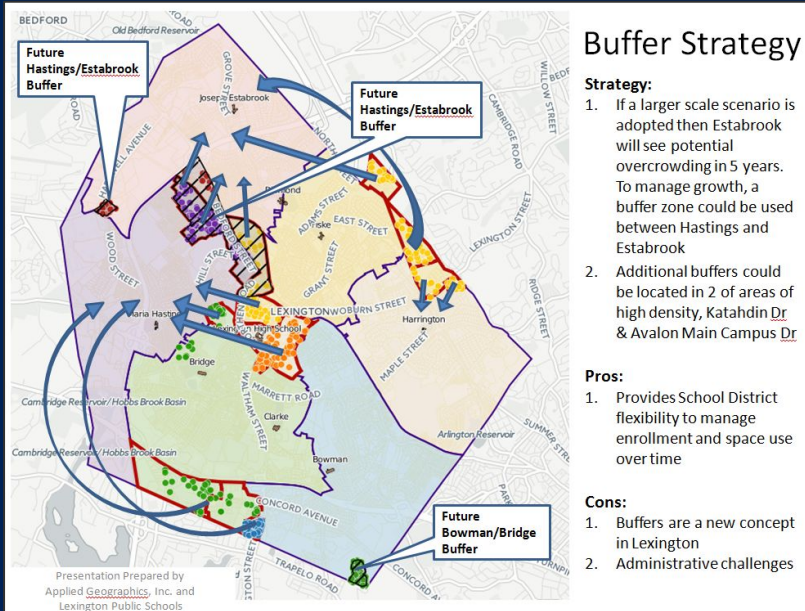
PRELIMINARY DRAFT RATING	Rating Scale				-1
	Favorable	1	Neutral	0	
OPTIONS					
A.A.	C.S.	F.1.	G.1.	Comments	
<b>CRITERIA</b>					
<b>Enrollment</b>					
Re-assign sufficient numbers of students to new schools	1	1	1	1	Boundary changes yield one K class per year
Achieve target enrollment at new schools in best possible timeframe	0	0	0	0	Expanded use of B2c can improve phase in
Ease enrollment at elementary schools for instruction and other district programming	1	1	1	1	Capacity is eased at 5 - 8 other schools
Maintain or improve balance of feeder patterns to middle schools/North Side	1	1	1	0	Some Peirce, Ward, Burr students moved south
Maintain or improve balance of feeder patterns to middle schools/South Side	-1	-1	-1	-1	Results in > Q4k Hill per current MS boundaries
Maintain or improve feeder patterns to high schools and balance between high schools	1	1	0	0	10 or more students per year rated as favorable
Category Subtotal	3	3	2	1	
<b>Family Impact</b>					
Numbers of students changing elementary school	1	0	0	1	Domino effect changes impact > # of students
Numbers of students changing middle school	-1	0	0	0	Peirce
Numbers of students changing high school	-1	0	0	0	Peirce
Category Subtotal	-1	0	0	1	
<b>Community</b>					
Use geographical characteristics (roads, parks, bodies of water) to define boundaries	1	1	1	1	
Maintain or expand safe walk to school routes	-1	0	0	1	See results of transit review
Maintain reasonable distance and length of bus routes	-1	0	0	0	Peirce
Category Subtotal	-1	1	1	2	
<b>Financial</b>					
Transportation costs	-1	0	0	1	
Teacher costs during implementation	0	-1	-1	0	More favorable when fewer schools are impacted
Other costs					Not yet rated
Category Subtotal	-1	-1	-1	1	
<b>Sustainability</b>					
Buffer zones maintained or expanded					Not yet rated
Account for known/probable future residential development					Not yet rated
Category Subtotal	0	0	0	0	
<b>TOTAL</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>5</b>	





# Community Communication & Presentation

Scenarios are presented in multiple visualizations with maps and graphics and as much supporting information as needed. A preferred scenario is adopted only after thorough vetting by the working group, staff, community and vote by school committee.



## Buffer Strategy

### Strategy:

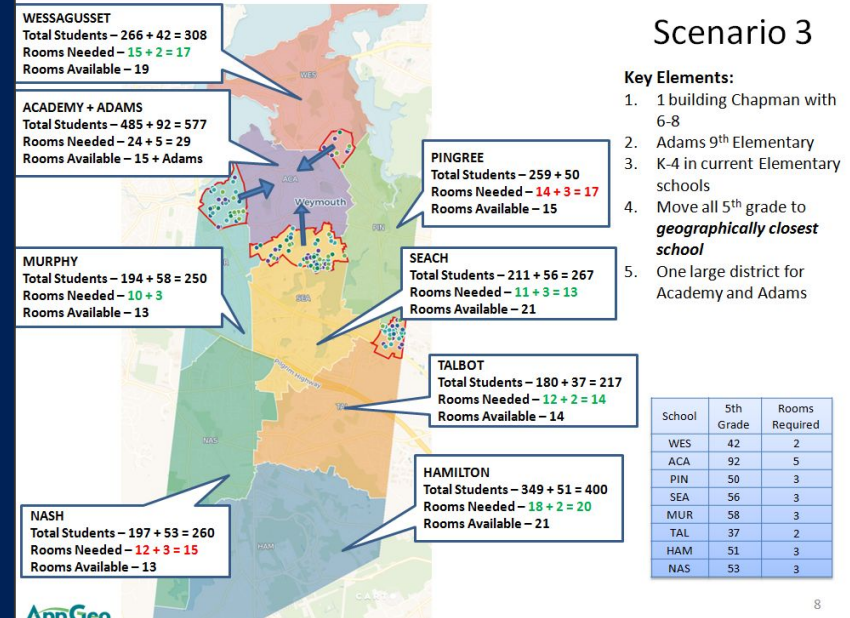
1. If a larger scale scenario is adopted then Estabrook will see potential overcrowding in 5 years. To manage growth, a buffer zone could be used between Hastings and Estabrook
2. Additional buffers could be located in 2 of areas of high density, Katahdin Dr & Avalon Main Campus Dr

### Pros:

1. Provides School District flexibility to manage enrollment and space use over time

### Cons:

1. Buffers are a new concept in Lexington
2. Administrative challenges



# Community Outreach

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*Some of the most important aspects of the project are non-technical.*



# Examples of Guiding Principles/Considerations

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**Ensure best use of existing or planned school space.**

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School and room capacity.

**Minimize impact on families.**

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Identify siblings - no splitting families

**Avoid dramatic increase in transportation costs.**

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Evaluate need for bussing

**Ensure kids have safe walk to school.**

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Focus on walkability; identify walking routes

**Minimize impact to special school programs.**

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Expect no changes to special ed programs

**Account for future development/growth in the plan.**

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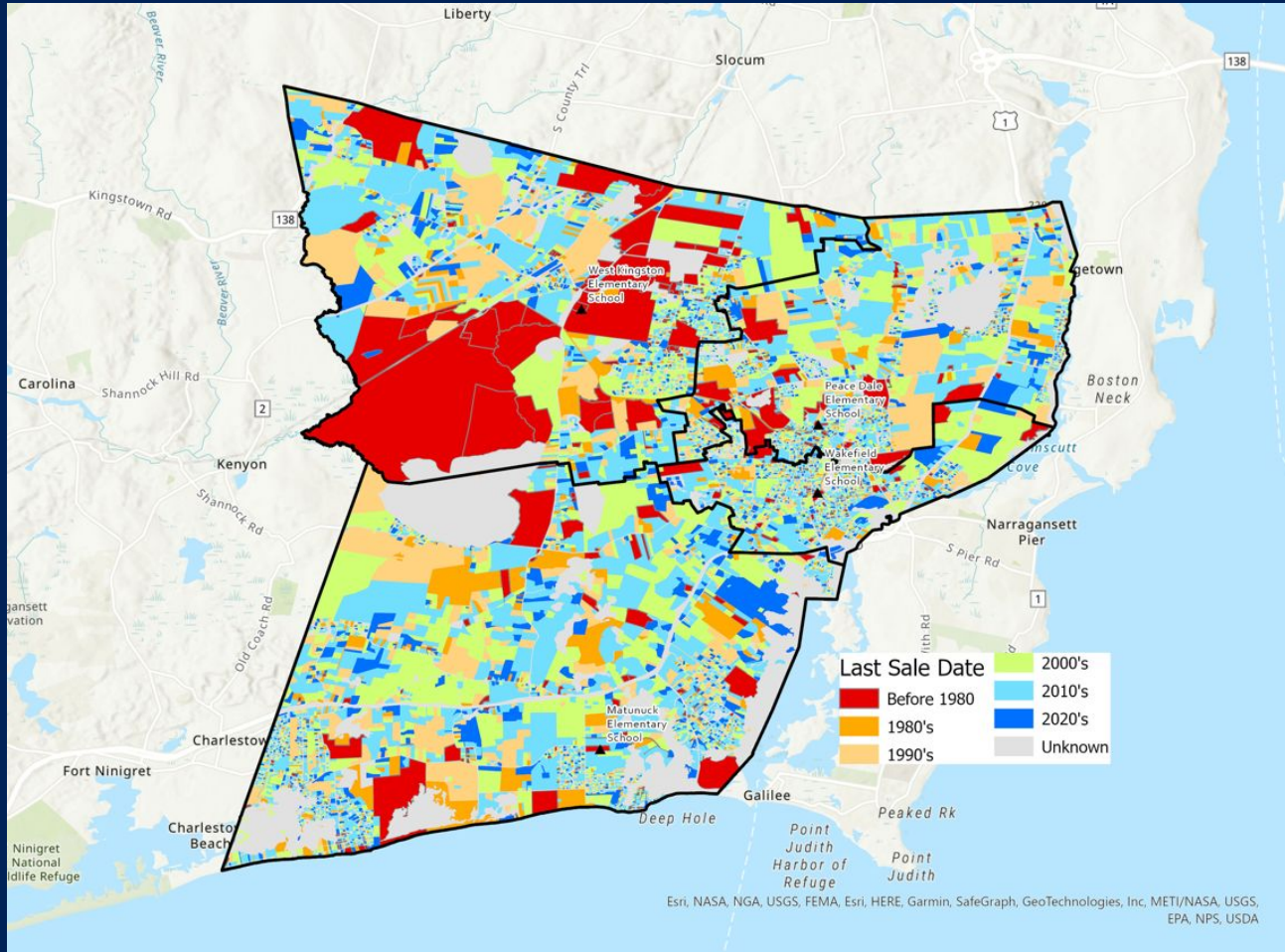
Work with planning dept to identify new developments





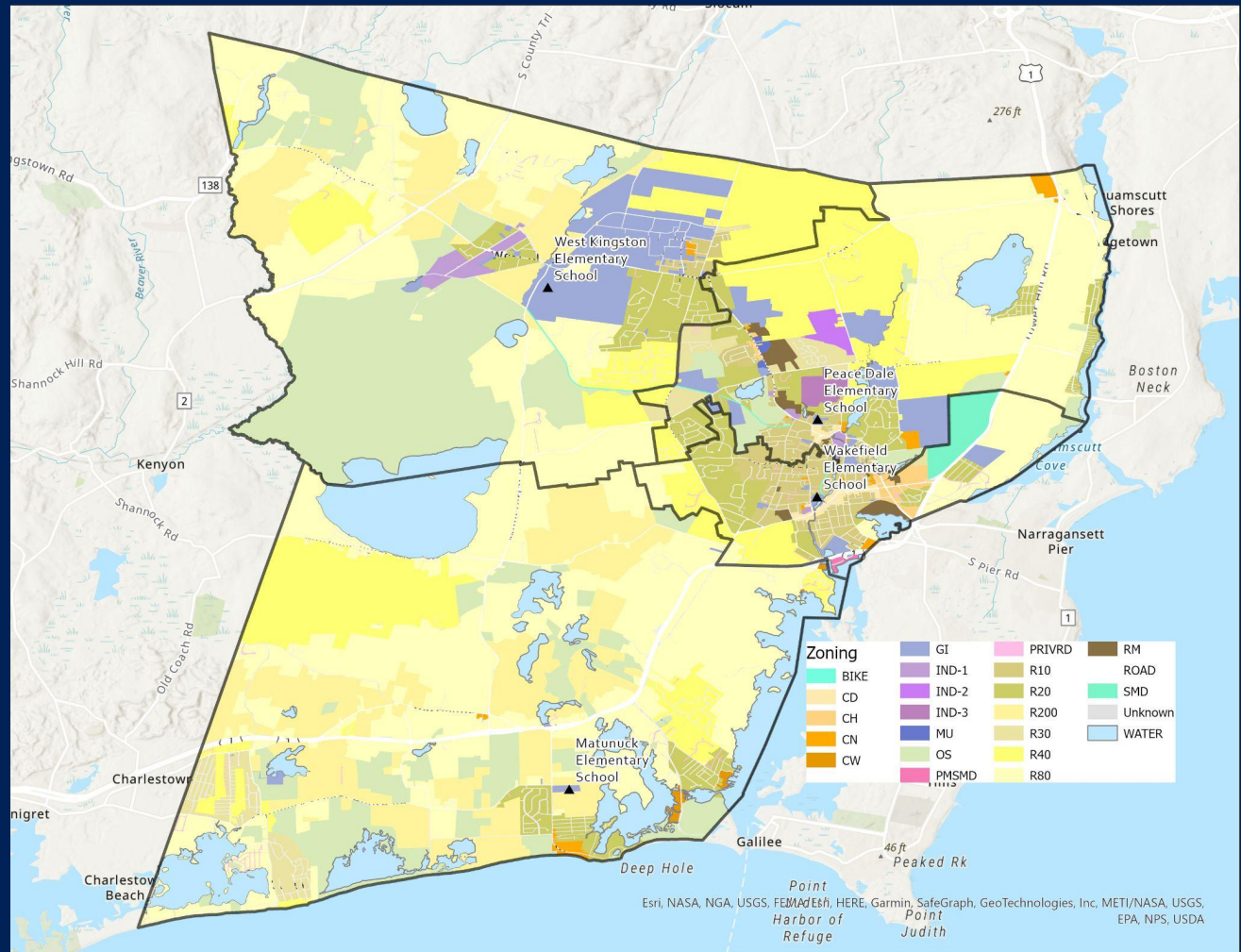
# Town Background

# Residential Last Sale History





# Zoning



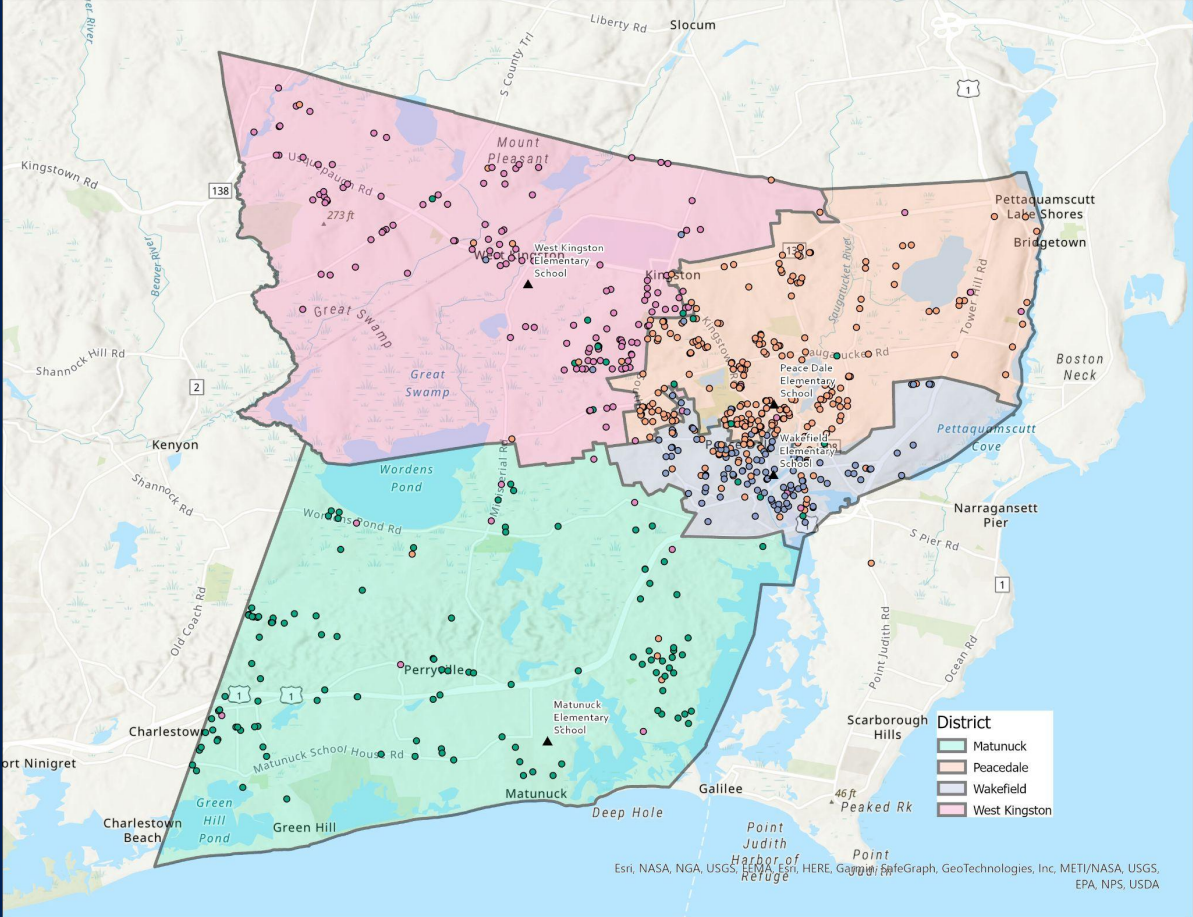


# District Background



# Elementary School Students and Districts

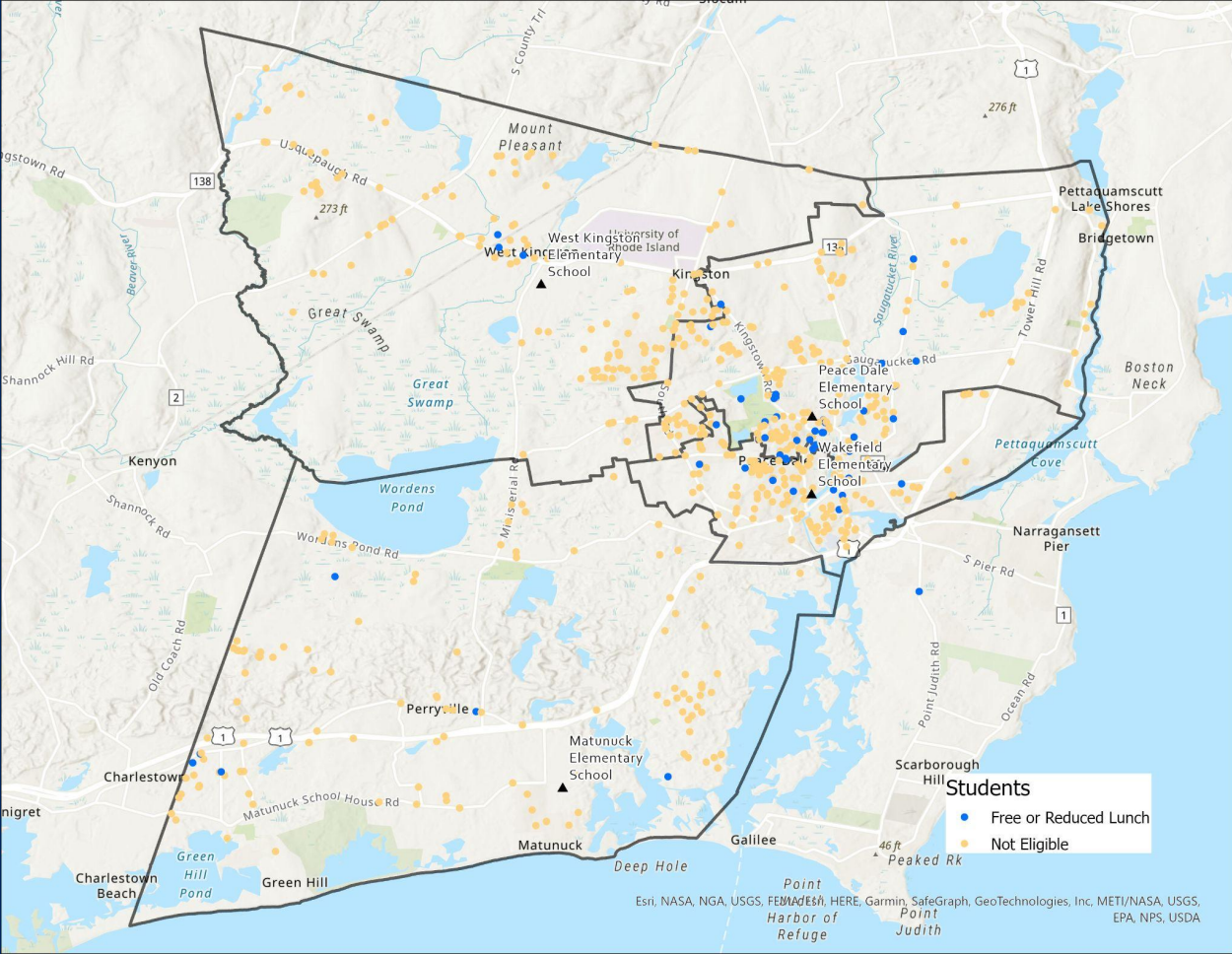
District	K-4
Matunuck	178
Peacedale	378
Wakefield	129
West Kingston	212



Esri, NASA, NGA, USGS, NOAA, HERE, Garmin, Swire, DeLorme, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, USDA

# Elementary School Free or Reduced Lunch Students

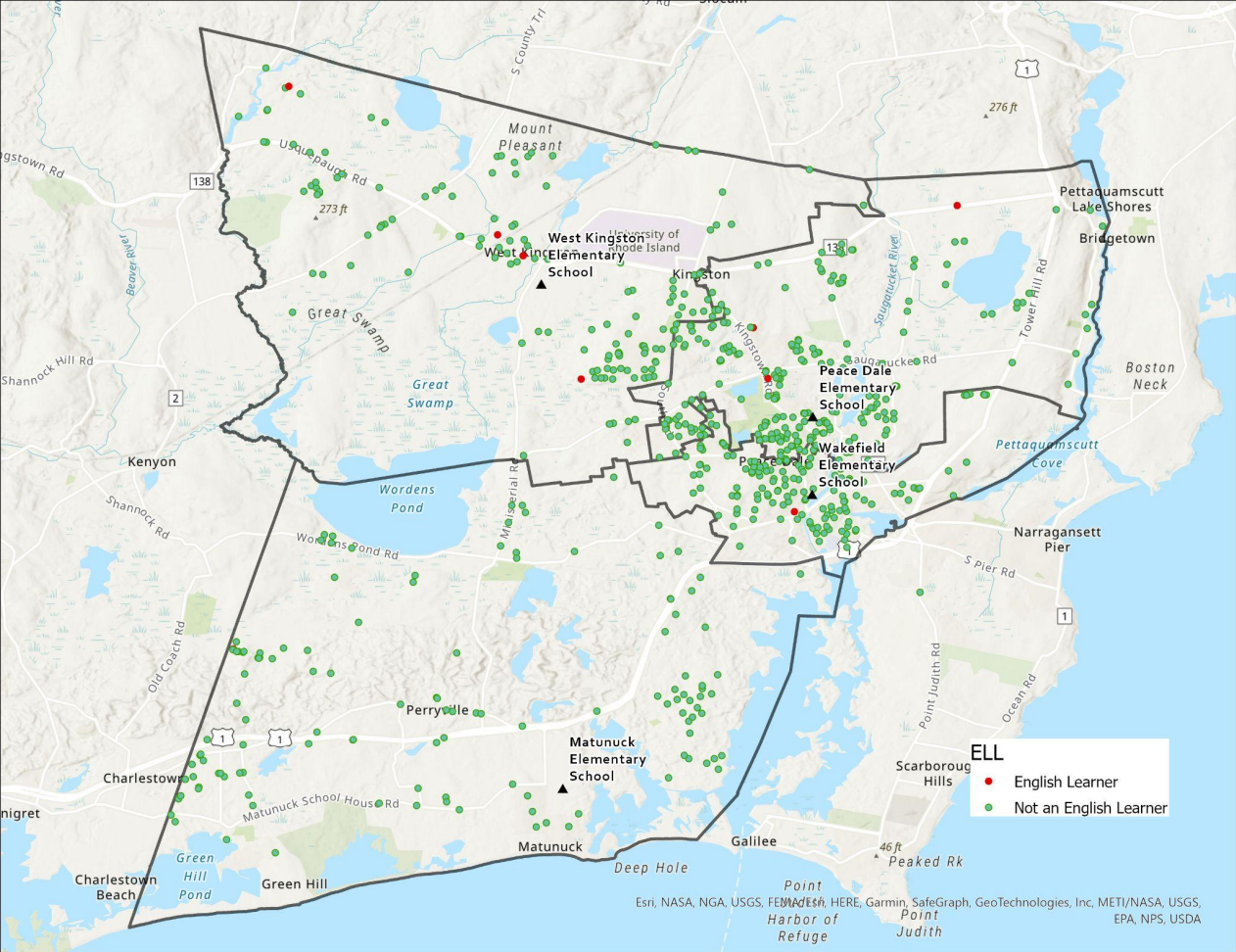
District	% Free or Reduced
Matunuck	6.7%
Peacedale	15.6%
Wakefield	6.2%
West Kingston	9.9%



Esri, NASA, NGA, USGS, FEMA, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA

# Elementary School ELL Distribution

District	% English Learners
Matunuck	0%
Peacedale	1.8%
Wakefield	2.3%
West Kingston	5.2%



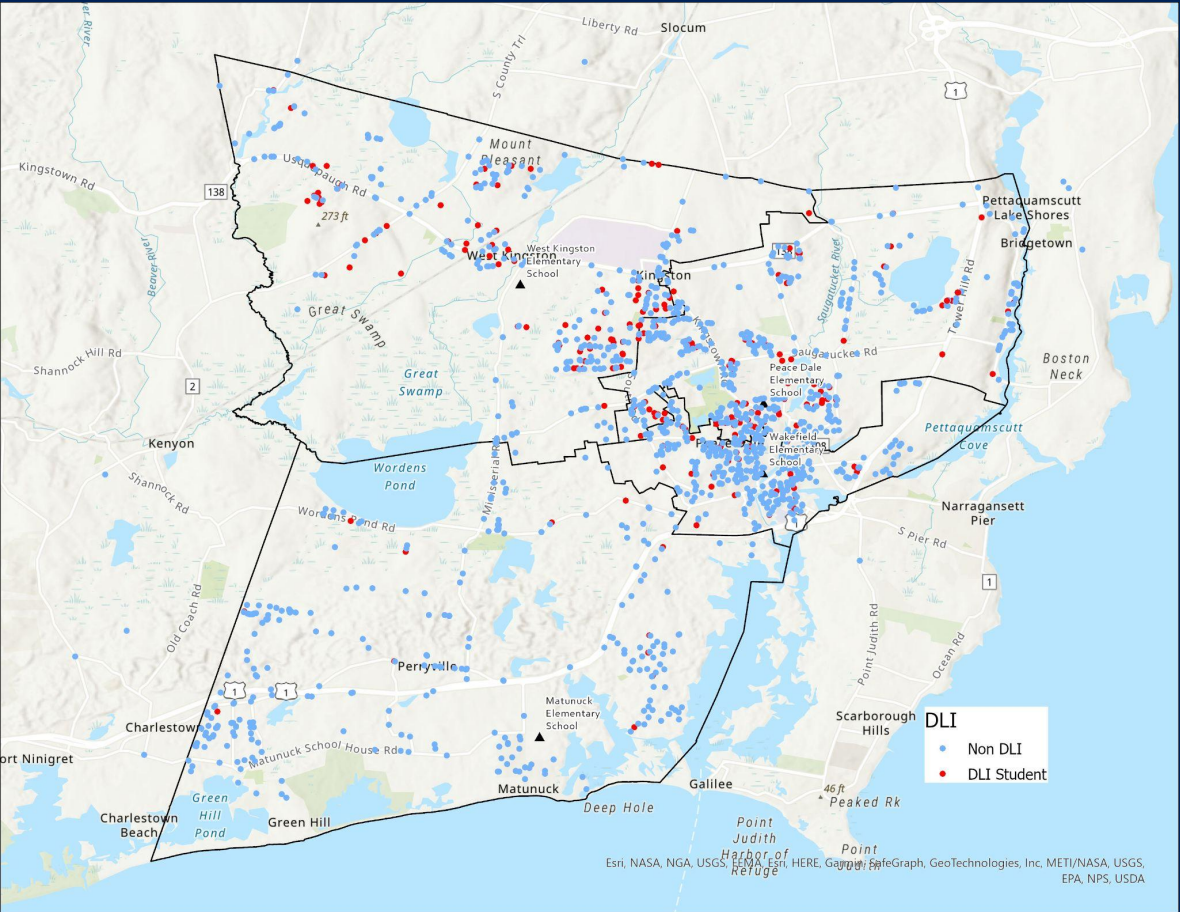
**ELL**  
● English Learner  
● Not an English Learner

Esri, NASA, NGA, USGS, FEMA, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA



# Elementary School DLI Distribution

District	% DLI
Matunuck	
Peacedale	
Wakefield	
West Kingston	



# Next Steps

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- Create components
- AppGeo create scenarios - 3/30
- Virtual meeting to review scenarios - 4/1
- Incorporate comments
- Once components are finalized we will start building scenarios

Questions?

