

GIS Applications

Peter Barker

Why is **Sustainability** important in New York City schools?

- 1,800 schools
- 1 million meals served
- 1.1 million students

HUGE IMPACT

DOE Sustainability

Outreach

- Support school sustainability programs
- Connect schools with grants, resources, and opportunities
- Conduct trainings for students, school staff, and custodial teams



Facilities

- Install solar systems and resiliency projects
- Oversee the Demand Response Program to reduce electricity consumption
- Waste management



Our Questions

- 1. How can our team better interface with data both in the office and in the field?**
- 2. How can we make this data available and digestible for our partner organizations and stakeholders?**

Main Data Sources

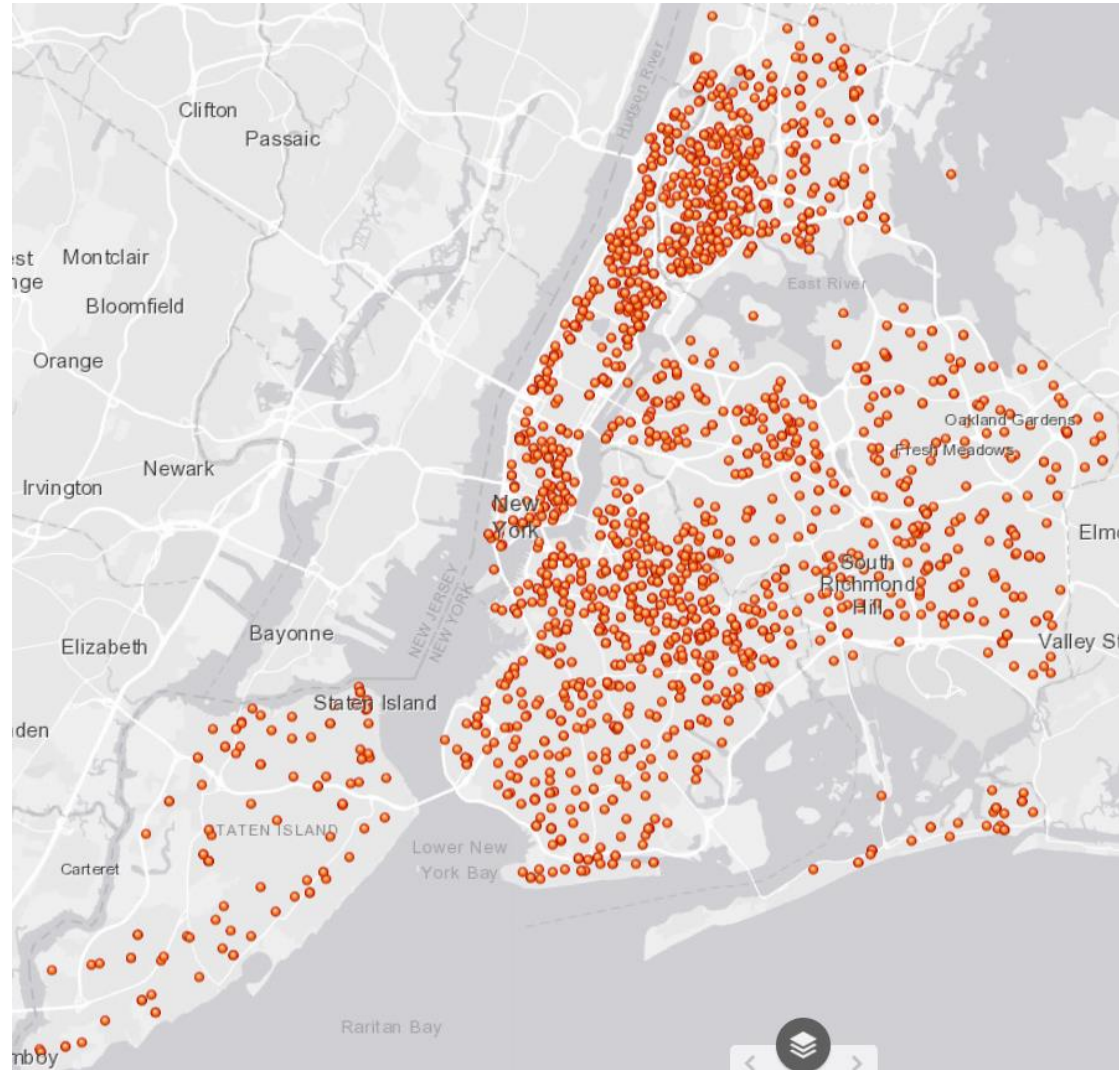
Qualitative

- Compliance reports
- Annual school based staff surveys
- Sustainability engagement and programing
- Partner organization outreach

Quantitative

- Facilities operations
- Individual school demographics
- Department of Sanitation services
- Meals served
- Enrollment & economic need

DOE Building Portfolio



Accessible on the Go

The screenshot displays the Sustainability Map Portal interface. At the top, a green header bar contains the "Sustainability Map Portal" title, "NYC DOE Sustainability" dropdown, a search bar with "Q119", and a "Show search results for Q119" button. On the left, a "Layer List" panel is open, showing a list of layers with checkboxes. A red dot on the map indicates the location of the selected school. A pop-up window on the right displays detailed information for the selected school.

Layer List

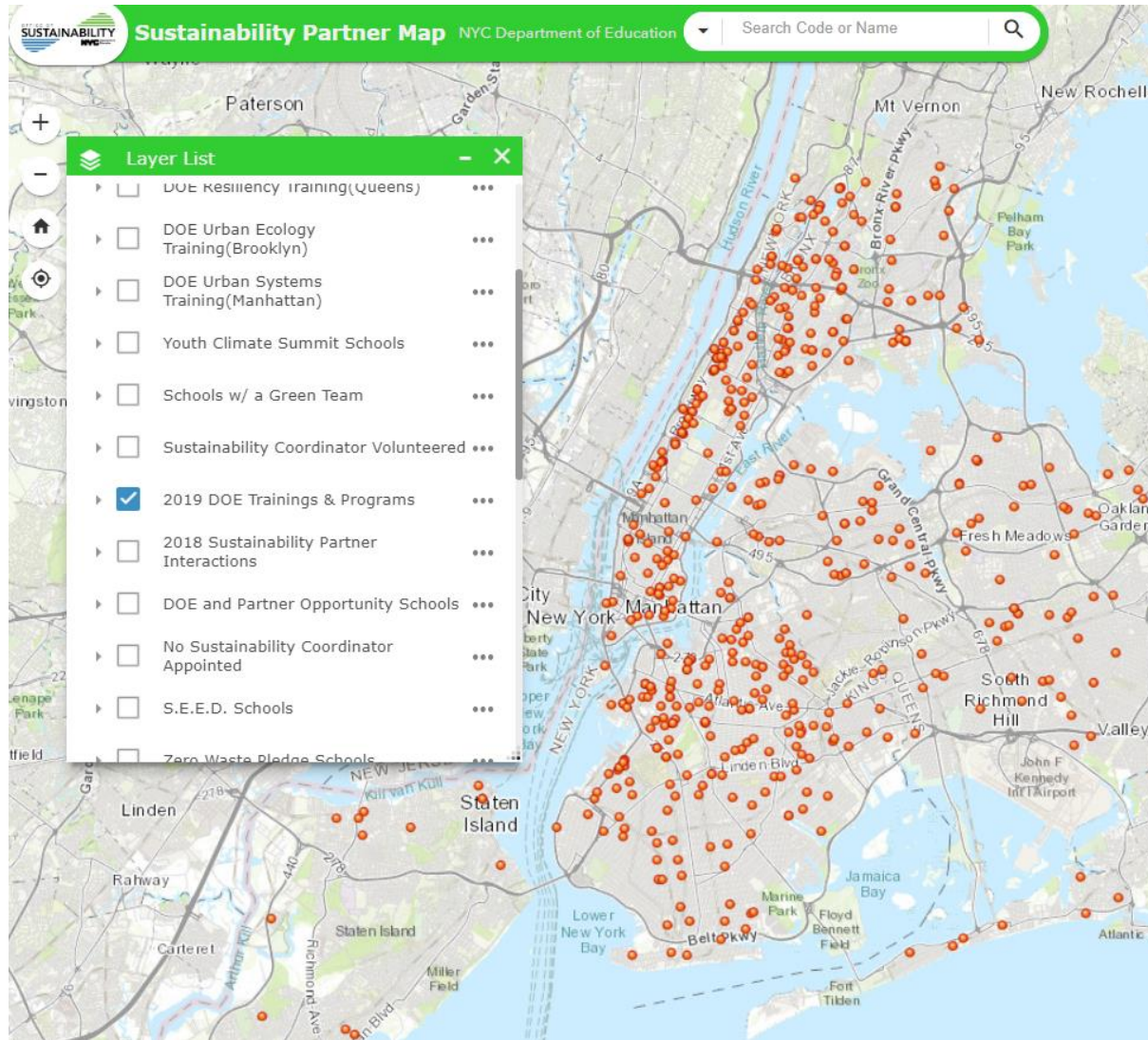
- ☒ ALL DOE SCHOOLS
- ☐ Outreach by Specialist
- ☐ Organics Collection Expansion
- ☐ Organics_DSNY Nov 18
- ☐ School Districts
- ☐ Planned Solar Buildings
- ☐ Operational Solar Buildings
- ☐ Demand Response Buildings
- ☐ Where does our Recycling go?
- ☐ Original RMZ

master_database_11_1_19: Did Not Attend

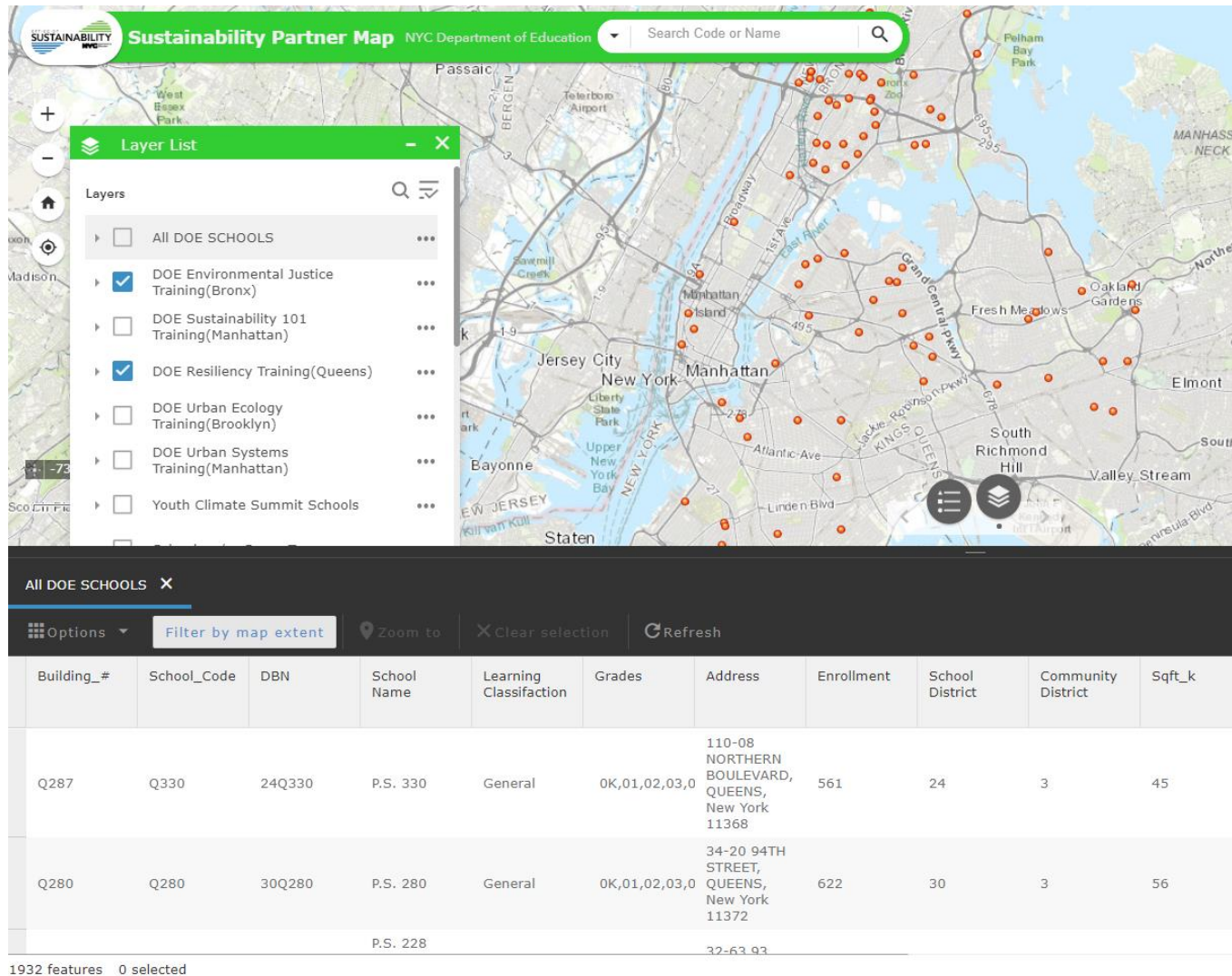
Building_#	Q119
School_Code	Q119
DBN	24Q119
School Name	I.S. 119 The Glendale
Learning Classification	General
Grades	0K,01,02,03,04,05,06,07,
Address	74-01 78 AVENUE, QUEEN
Building Ownership	DOE Owned
Managed By	DOE
Enrollment	1275
School District	24
Community District	5

[Zoom to](#)

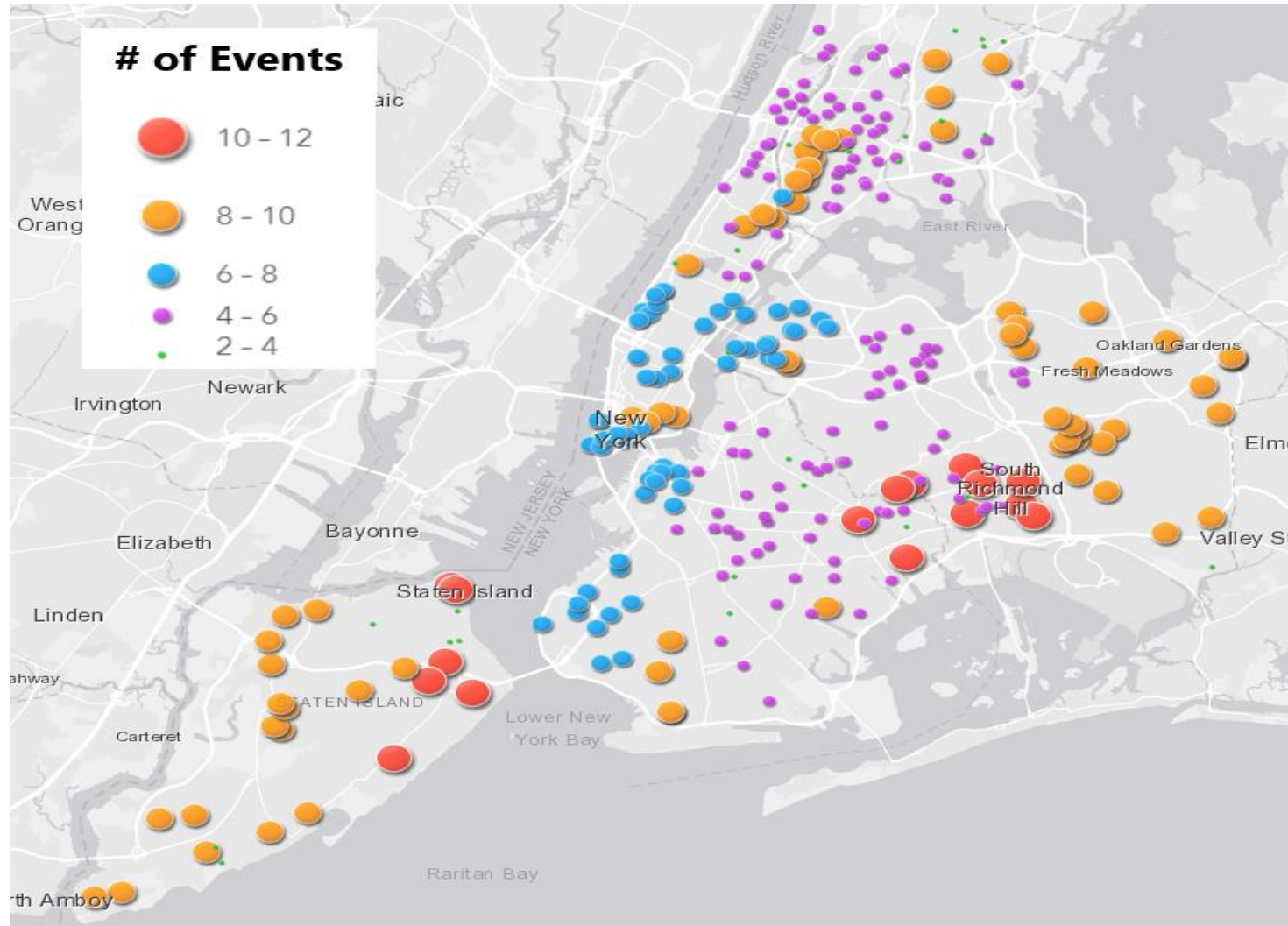
External Partner App



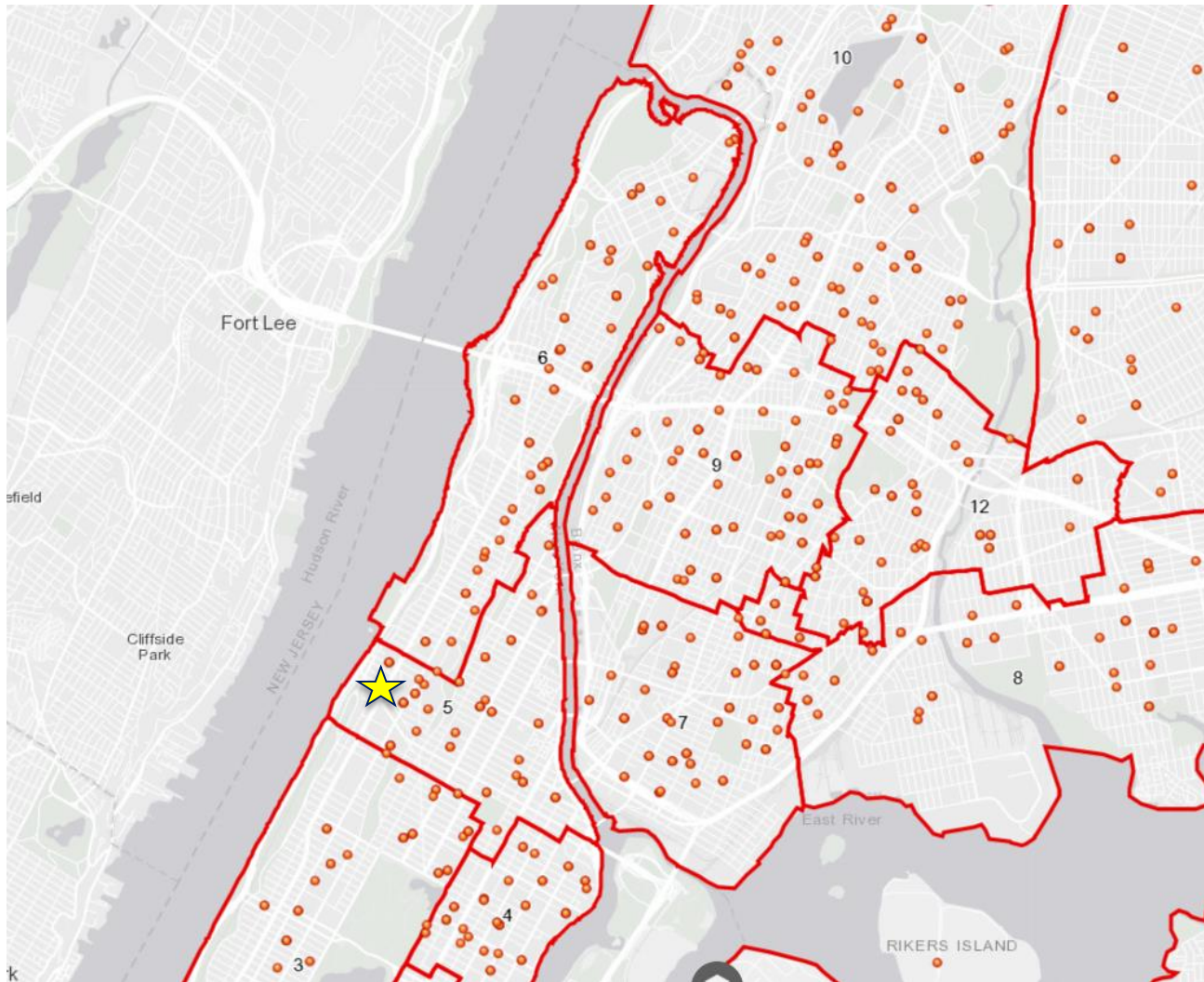
Data for Everyone



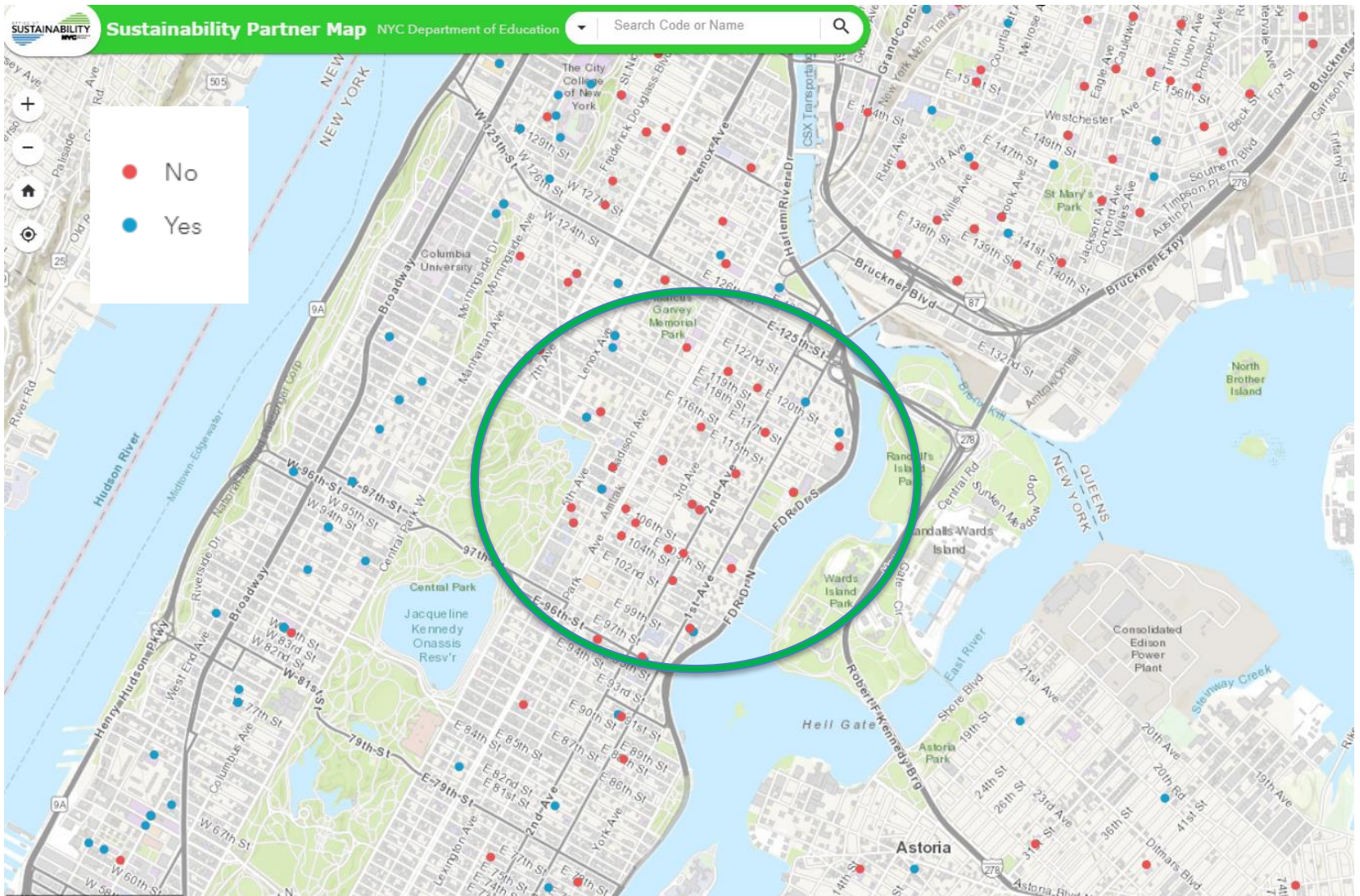
Demand Response Events



Targeted Outreach

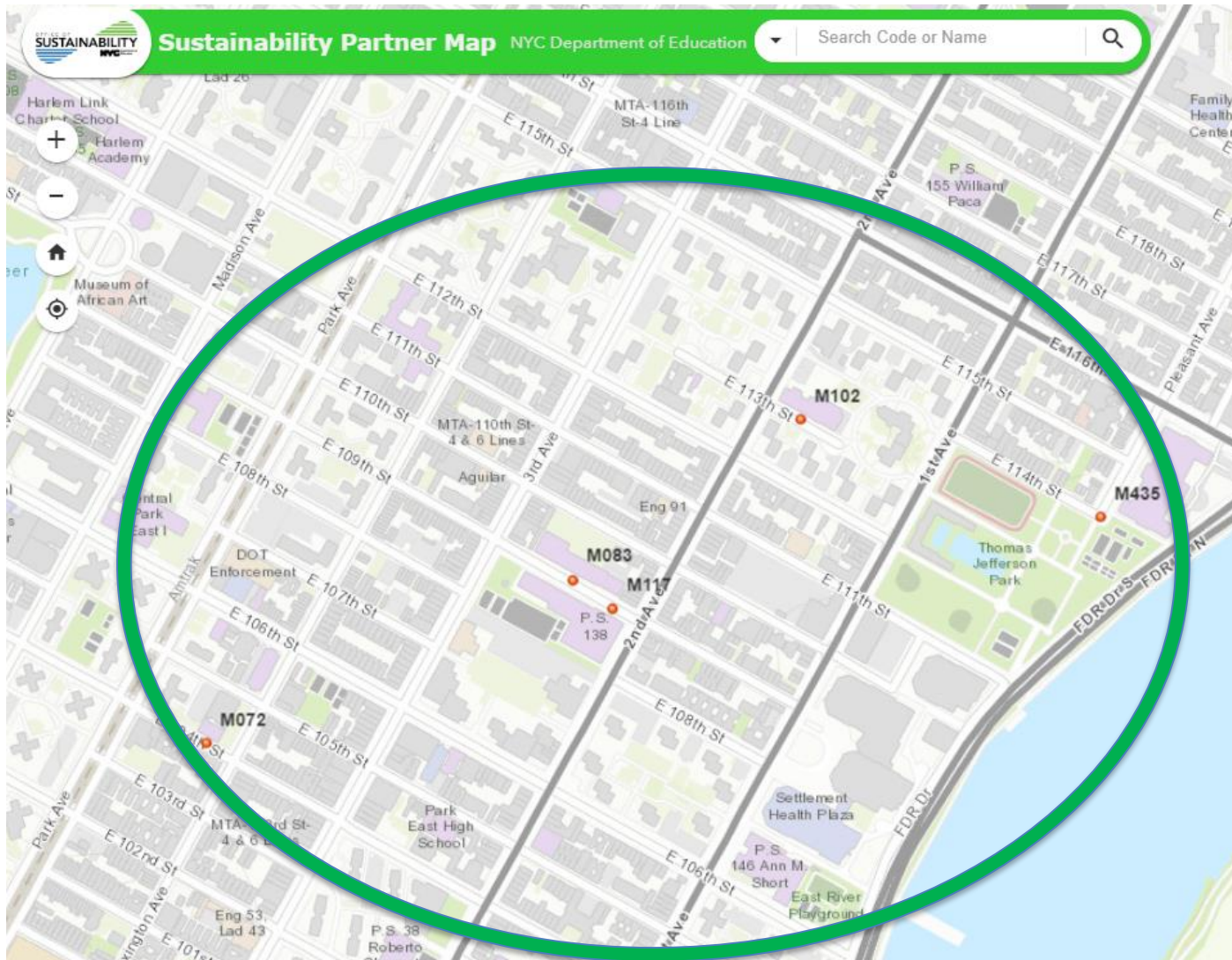


Targeted Outreach



schools.nyc.gov/sustainability
✉ sustainability@schools.nyc.gov

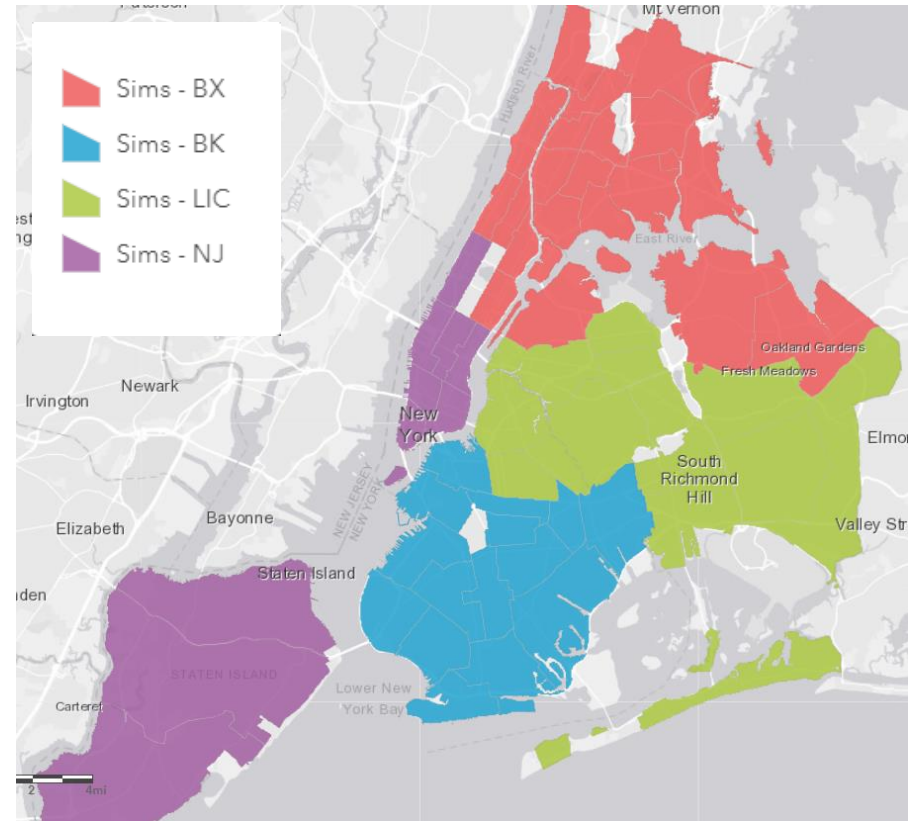
Targeted Outreach



What's next from us?

- Application for teachers and students
- More urban systems
- Climate impacts and Resiliency
- Energy efficiency and operations

NYC Metal/Glass/Plastic Recycling



Thank You!

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