



CITY SCHOOL DISTRICT OF NEW ROCHELLE  
515 NORTH AVENUE  
NEW ROCHELLE, NEW YORK 10801-3416

# CITY SCHOOL DISTRICT OF NEW ROCHELLE NEW YORK STATE SMART SCHOOLS BOND ACT PRELIMINARY INVESTMENT PLAN 2015-2018

## **PUBLIC HEARING ON SMART SCHOOLS BOND FUNDING**

There will be a Public Hearing on Smart Schools Bond Act Fund on November 24, 2015,  
7:45 PM at:  
Isaac E. Young Middle School  
270 Centre Avenue  
New Rochelle, NY

If our New Rochelle Community would like to submit written feedback on the  
CSDNR NYS Smart Schools Bond Act Preliminary Proposed Plan, please email:

[csdnrsmartbond@nredlearn.org](mailto:csdnrsmartbond@nredlearn.org)

To learn more about the Smart Bond Act FAQs and Guidelines go to:

NYSED SSBA FAQs 07/16/15

<http://www.p12.nysed.gov/mgtserv/documents/FAQsforSmartSchoolsBondAct.pdf>

NYSED SSBA FAQs 10/27/15

<http://www.p12.nysed.gov/mgtserv/documents/SSBAQuestionsASBO102615edited102815AL.pdf>

NYSED SSBA Guidelines

[http://www.p12.nysed.gov/mgtserv/smart\\_schools/docs/Smart\\_Schools\\_Bond\\_Act\\_Guidance\\_04.27.15\\_Final.pdf](http://www.p12.nysed.gov/mgtserv/smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf)

NYSED SSBA Website

<http://www.p12.nysed.gov/facplan/SmartSchoolsBondAct.htm>

**November 2, 2015**

## **TABLE OF CONTENTS**

**PLAN OVERVIEW**

**PRECONDITIONS**

**PLAN GOALS**

**PURCHASE PLAN & ALLOCATIONS**

**PROFESSIONAL DEVELOPMENT**

**SUSTAINABILITY**

**INVESTMENT PLAN TIMELINE**

## PLAN OVERVIEW

In January 2014, Governor Andrew M. Cuomo called for New York State to invest \$2 billion in its schools through a Smart Schools Bond Act (SSBA). Voters approved the Smart School Bond Act in November 2014 and as a result the City School District of New Rochelle (CSDNR) was allocated to receive **\$3,527,277**. Aligned with the CSDNR 2015-2018 Technology Plan, adopted by the District, the City School District of New Rochelle Smart Schools Investment Plan is designed to:

- Upgrade the CSDNR security network and cameras
- Upgrade CSDNR network infrastructure
- Expand the CSDNR wireless equipment in place
- Add laptops to existing classroom technology
- Non-Public schools laptop loaner program

Working with the CSDNR Districtwide Superintendent's Committee for Technology, and in consultation with groups of District Administrators, Teachers, Students, Parents, Community Members, Non-Public School Representatives located in the City of New Rochelle, and aligned with the CSDNR 2015-2018 Technology Plan this three year investment plan has been drafted to focus this allocation on the Smart Schools Bond Act allowable expenditures that include:

- School Connectivity
- Classroom Technology
- High-Tech Security Features

## PRECONDITIONS

As a precondition to utilizing the SSBA allocations, the District has ensured that there is adequate Internet bandwidth to further expand wireless connectivity for classrooms, additional technology devices for classrooms and upgrading the CSDNR security network and cameras. There is adequate Internet bandwidth in excess of 200 Mbps per 1,000 students to sustain the increase of more classroom devices.

CSDNR has managed fiber between buildings on the schools district's private network which provides up to 10 Gigabit of interconnectivity. Currently CSDNR has 1 Gigabit between sites for district interconnectivity but with the proposed SSBA allocations for upgrades to the CSDNR network infrastructure this will increase to 10 Gigabit between schools.

All New York State public school districts are required to complete and submit a District Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations. Districts that include investments in high-speed broadband or wireless connectivity and/or learning technology equipment or facilities as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department (NYSED). The City School District of New Rochelle submitted their required Instructional Technology Plan survey to NYSED in August 2015 and was approved in September 2015.

## PLAN GOALS

The City School District of New Rochelle Smart Schools Investment Plan goals align with the District's 2015-2018 Technology Plan that includes:

- Embedding technology into the delivery of instruction and continue to provide equitable access to technology tools to prepare all learners to be college and career ready.
- Continuing to provide technical support, infrastructure upgrades, and network maintenance for all users of the network.
- Continuing the District's Universal Design initiative to empower all students, teachers, and administrators with equity of access to technology.
- Continuing to develop and integrate K-12 students' technical competencies and learning strategies that seamlessly integrate ISTE Technology Strategies, National Common Core Standards for K-12 and PARCC College and Career Readiness.
- Maximizing college and career readiness skills through multimedia tools and online learning environments.
- Systemically support on-going technology and assistive technology training and development for teachers, staff, administrators and parents to encourage consistency, collaboration, and innovation throughout the District to support teaching and learning.
- Continuing to implement ISTE Administrator and Teacher Technology Standards (NETS) practices to ensure that curriculum, instructional strategies, and the learning environments integrate appropriate technologies.

Specifically, the District's Smart Schools Bond Act allocation will focus on:

- Expanding CSDNR network Infrastructure to upgrade connectivity and speeds (Bandwidth) between CSDNR schools out to the Internet.
- Expand current Wi-Fi infrastructure for Wi-Fi access points for all classrooms in grades 2-12.
- Expand Chromebooks (laptops) for CSDNR Classrooms.
- Provide Chromebooks (laptops) for the CSDNR Non-Public Schools Loaning Program as required by SSBA guidelines and regulations.
- Upgrade (7) Year Old Security Network, Security Cameras, and Door Entrance Systems.

## PURCHASE PLAN & ALLOCATIONS

The City School District of New Rochelle supports a technology network of over 13,000 users. Under current allocations of resources for technology equipment, that includes; BOCES Purchase Agreements (IPA), District Technology Department yearly budget allocations, eRate funding, and any grant funding available, we are fiscally unable to move as rapidly as we would like to equip all schools with wireless technology and laptops in all classrooms as we would like. In addition, we would like to increase the speed of the Internet bandwidth between our schools from 1 Gigabyte to 10 Gigabytes and upgrade an aging security network and cameras with SSBA allocations. In alignment with the approved CSDNR 2015-2018 District Technology Plan, the District plans to utilize SSBA allocations as described below in Table 1. for the SSBA allowable expenditure Budget Category areas.

**TABLE 1: SSBA Allowable Expenditure Summary of \$3,527,277 by Budget Category**

<b>SSBA Budget Category</b>	<b>Allocations</b>
<b>School Connectivity</b>	
Upgrade CSDNR Network Infrastructure	\$323,928
Expand CSDNR Wireless Access for Classrooms	\$1,395,772
<b>Classroom Technology</b>	\$1,100,783
<b>Classroom Technology:</b> Non-Public Schools Loaning Program for 3,082 Non-Public students x SSBA \$99.55* per student as required by SSBA	\$306,813
<b>High-Tech Security Features</b> Upgrade CSDNR Security Network & Cameras	\$399,981
<b>TOTALS</b>	<b>\$3,527,277</b>

\*11,058 District students plus 3,082 Non-Public Students = 14,140 students.

14,140 students divided by SSIP Classroom Technology budget amount of \$1,407,596 equals \$99.55 per student of SSIP funding. SOURCE-NYSED FAQs 10/27/15 Page 5 Question 23. <http://www.p12.nysed.gov/mgtserv/documents/SSBAQuestionsASBO102615edited102815AL.pdf>

The following information below summarizes the SSBA Budget Category in Table 1. for **School Connectivity**.

- **Upgrade CSDNR Network/Access Costs**

Expand network Infrastructure at all CSDNR schools to upgrade to 10 Gigabit switches, 10 Gigabit fiber optics and upgraded UPS Network Management with environmental monitoring for these new devices. This is designed to increase Internet speeds between CSDNR schools out to the Internet from 1 Gigabit to 10 Gigabit capacities.

- **Expand CSDNR School Internal Connections and Components**

Currently CSDNR has a Wireless Aruba Network at all schools and Wireless Aruba Access Points in all (10) School Libraries, (5) in all Secondary School Cafeterias, (1) Elementary Cafeteria, (5) Meeting areas for Students at New Rochelle High School, (40) Classrooms in New Rochelle High School, (20) Classrooms at Albert Leonard Middle Schools, (20) Classrooms at Isaac E. Young Middle School, (4) Outdoor Access points at (1) Elementary School, (5) Meeting rooms in District Office, on all laptop carts in all schools and at all sites for Board of Education Meetings. Our current (3) year FCC eRate Project is providing 80% reimbursement to Wi-Fi wire all schools.

With SSBA allocations, refer to Table 2, we will be expanding our Aruba wireless components at all schools including Wireless Access Points (WAPS) for classrooms, instructional areas, and outdoor WAPS to narrow our digital divide for afterschool access and includes:

- New Rochelle High School - 228 WAPS
- Campus Alternative High School -19 WAPS
- Albert Leonard Middle School -91 WAPS
- Isaac E. Young Middle School - 96 WAPS
- Henry Barnard PreK-3 Elementary School - 45 WAPS
- Columbus Elementary School - 77 WAPS
- Daniel Webster Elementary School - 52 WAPS
- George M. Davis Elementary School - 65 WAPS
- Jefferson Elementary School - 64 WAPS
- Trinity Elementary School - 78 WAPS
- William B. Ward Elementary School - 93 WAPS
- Outdoor WAPS (10) at all schools - 61 WAPS

**TOTAL= 969 WAPS**

**TABLE 2. SSBA Sub-Allocation Category: School Connectivity**

<b>SSBA Connectivity Projects for Schools</b>	<b>Sub-Allocation</b>
Network/Access Costs	\$300,333
Outside Plant Costs	0
School Internal Connections and Components	\$1, 387,972
Professional Services	\$31,395
Testing	0
Other Upfront Costs	0
Other Costs	0
<b>TOTALS</b>	<b>\$1,719,700</b>

The following information below summarizes the SSBA Budget Category in Table 1. for **Classroom Technology**.

The District plans to purchase Dell Chromebook 11 (laptops) for classrooms. Each Dell Chromebook features an (11) inch screen, Intel Processor, 4 GB of Memory, Intel Dual-Band wireless capabilities and features a (9) hour battery. They will be purchased with the Chrome OS Management license so that they can be added to the District’s existing CSDNR Google for Education (GAFE) Management CLOUD. These units are allocated in groups of 30 per classroom and will be charged and secured in Dell Mobile Computer carts. This technology has a proof-of-concept for portability, excellent durability, and successful integration into the Grade 2-12 curriculum.

According to Smart Schools Bond Act Guidelines located at: [http://www.p12.nysed.gov/mgtserv/smart\\_schools/docs/Smart\\_Schools\\_Bond\\_Act\\_Guidance\\_04.27.15\\_Final.pdf](http://www.p12.nysed.gov/mgtserv/smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf) CSDNR is making every effort to provide for all children in New Rochelle based on the provisions by the SSBA guidance documents and regulations. Therefore, we have divided our purchase of classroom technology devices proportionally to the last BEDs reported enrollment for each of the (10) Non-Public Schools located in the City of New Rochelle geographical boundaries. \*All Classroom Technology available to non-Public Schools is in the format of a loaning technology program. This will be available to the Non-Public Schools after fulfilling requirements in alignment with Smart Schools Bond Guidelines document and rules. Table 3. below reflects this.

**TABLE 3. SSBA Sub-Allocation Category: Classroom Technology**

<b>SSBA Classroom Learning Technology Sub-Allocation</b>	<b>Sub-Allocation</b>
Interactive White Boards	0
Computer Servers	0
Desktop Computers	0
Laptop Computers 4,233 Dell 11 Chromebooks	\$1,100,783
1,180 Dell 11 Chromebooks SSBA Non-Public Schools Loaning Program 3,082 Non-Public students x SSBA \$99.55* per student *Required by SSBA	\$306,813
Tablet Computers	0
<b>TOTALS</b>	<b>\$1,407,596</b>

\*11,058 District students plus 3,082 Non-Public Students = 14,140 students.  
14,140 students divided by SSIP Classroom Technology budget amount of \$1,407,596 equals \$99.55 per student of SSIP funding. SOURCE-NYSED FAQs 10/27/15 Page 5 Question 23. <http://www.p12.nysed.gov/mgtserv/documents/SSBAQuestionsASBO102615edited102815AL.pdf>

The following information below summarizes the SSBA Budget Category in Table 1. for **High-Tech Security Features**.

Our District currently has a (7) year old security network and cameras that needs to be upgraded.

We intend to use Smart Schools Bond Act allocation in the High-Tech Security Features category as indicated in Table 4 to:

- Replace seven security network servers and 49 analog cameras to high resolution digital cameras.
- Upgrade of the server infrastructure along with the access equipment at 50 doors. Existing electronic door hardware would be reused.
- Upgrade the (50) existing access controlled doors to the Avigilon access control system reusing the existing lock devices, wiring and network connections.
- Upgrade the access control appliance server to support 128 doors.
- Upgrade (useable storage) servers with 250 Mbps of throughput, (3) - 10TB (useable storage) servers with 250 Mbps of throughput. The servers would be installed in existing rack space and connected to existing UPS in each of the seven locations. Configuration services are included to setup recording for all 228.
- Upgrade the security network for full viewing and control of the cameras locally if the local building is disconnected from the Wide Area Network.

**TABLE 4. SSBA Allocation Category: High-Tech Security Features**

<i><b>SSBA High-Tech Security Features</b></i>	<b>Sub -Allocation</b>
Capital-Intensive Project (Standard Review)	0
Main Entrance Electronics Security System (Streamlined Review)	\$227,046
Main Entrance Entry Control System (Streamlined Review)	\$172,935
Approved Door Hardening Project (Streamline Review)	0
Other Costs	0
<b>TOTALS</b>	<b>\$399,981</b>

## PROFESSIONAL DEVELOPMENT

As technology becomes more widely available and continues to change, there is a compelling need to provide on-going professional development to support educational reform goals, New York State standards and Common Core Standards, to model collaborative inquiry-based learning and to guide staff toward incorporating the global infrastructure in instruction and productivity.

The Smart Schools Bond Act does not provide allocations for Professional Development. The City School District of New Rochelle will continue providing resources and funding based on its approved budgets to support and promote activities for technology professional development for staff, teachers and administrators. Furthermore, we will explore and engage in any other grant opportunity to supply for additional opportunities for technology professional development and ensure our staff, teachers and administrators can efficiently use the technology and effectively promote student achievement, teaching and learning.

The technology professional development goals below are from the 2015-2018 CSDNR District Technology Plan:

- Continue to use the (9) Instructional Technology Facilitators as the foundational source of on-going and on-demand technology staff development experiences for administrators, teachers, and staff in our schools.
- Continue to support other staff developers from in-district staff and/ or others who are knowledgeable about local curriculum and learning goals to integrate technology into the classroom.
- Continue to provide technology staff development by examining District and curricular needs, working individually with colleagues, planning, presenting workshops during the school day, at faculty meetings, through online professional development portals, tutorials and media.
- Continue to expand the variety of technology staff development offerings. This includes: online courses, streaming video and online tutorials that allow teachers and staff to have access to training that can take place “anytime, anywhere”.
- Continue to investigate how technology can provide staff development experiences.
- Offer differentiated training opportunities to address the increasing specialized applications of technology. Staff development should include technology and workshops targeted to staff members who possess different levels of technology proficiency.
- Seek to hire new staff members who have competency in technology.
- Continue to train Parents/Guardians of District students to utilize and access our Home Access Portal. This portal provides information about student attendance, report cards, progress reports, transcripts, GPA, emergency contact information, and teacher communication resources.
- Provide on-going technology staff development for Administrators, Supervisors and Support Staff in data, productivity and communications.

## **SUSTAINABILITY**

The District is committed to working upgraded and new devices purchased through the Smart Schools Bond Act into the equipment replacement cycle already in place. Each year, over the next 4 years, an allotment of funding will be budgeted for the normal repair costs of a percentage of the total devices. After (4) years the devices will be replaced and/or reallocated in order to ensure the equipment stays current and new technology is supported.

## **PROVISIONS AND DISTRIBUTION TIMELINE**

Once the CSDNR Smart Schools Bond Act Investment Plan is approved by the state, equipment will be purchased in accord with the District's purchasing policies and budget cycles within the next five years. Once equipment arrives the Technology Department Staff will prioritize will inventory and provision of the equipment in accordance with our multi-year plan. Based on proposed quantities, equipment should be in place and operational within 60-90 days after it arrives. Projects are prioritized in the below order:

1. Upgrade the CSDNR security network and cameras
2. Upgrade CSDNR network infrastructure
3. Expand the CSDNR wireless equipment in place
4. Add laptops to existing classroom technology
5. Non-Public School laptop loaner program

The district will include this new equipment in its existing inventory database and monitor it to ensure equipment is securely maintained in its designated locations. The District's asset insurance database will be updated to reflect the additional equipment as well.

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