

PRELIMINARY

# SMART SCHOOLS INVESTMENT PLAN

CANANDAIGUA CITY SCHOOL DISTRICT

2016-17



# SMART SCHOOLS INVESTMENT PLAN OVERVIEW

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The Smart Schools Bond Act was passed in 2014 by a state wide referendum. The Smart Schools Bond Act (SSBA) authorized the issuance of \$2 billion of general obligation bonds to finance improved educational technology and infrastructure to improve learning and opportunity for students throughout the State.

The guidelines for the use of the money focuses on four main areas of funds:

- Install high-speed broadband or wireless internet connectivity for schools and communities;
- Acquire learning technology equipment or facilities, including but not limited to interactive whiteboards, computer servers, and desktop, laptop, and tablet computers;
- Construct, enhance, and modernize educational facilities to accommodate pre-kindergarten programs, and to provide instructional space to replace classroom trailers; and/or
- Install high- tech security features in school buildings and on school campuses, including but not limited to video surveillance, emergency notification systems, and physical access controls.

Our district's plan for the use of these funds needs to be approved by the school board and submitted to the New York State Education Department. The plan must meet the required elements including demonstrating students' needs, minimal speed requirements for internet connectivity, professional development, technical support, and sustainability. As part of the process, districts are required to submit a District Instructional Technology Plan survey in compliance with the Education Law and Commissioner's Regulation. The Instructional Technology Plan survey outlines the current and future plans of the district as it relates to infrastructure, devices, staffing, and professional development to improve teaching and learning. The Instructional Technology plan for Canandaigua was approved by New York State Education Department in September 2015.

Over the course of several months a draft preliminary plan was developed by the Smart Schools Bond Investment Committee / District Technology Committee which is comprised of parents, teachers, students, and community members. The draft was initially presented to the school board on April 28, 2016 for approval. On June 23, 2016 the Plan in its entirety was presented to the Board. Once the draft preliminary plan is approved by the school board, it will be posted on the district website and a public hearing will be conducted to enable stakeholders to respond to the preliminary plan. After the hearing, the district will prepare a final plan for school board approval. The approved plan will be submitted to the New York State Education Department and will be posted on the district website. The planning process will include consultation with parents, teachers, students, community members, any non-public schools located in the district, and other stakeholders.

The district has been allocated \$2,256,756. At this time the district is seeking approval of \$2,055,645 in only one of the categories outlined below.

Budget Category	Canandaigua City School District Sub-allocation	Non-Public School Sub- Allocations
School Connectivity	\$0	\$0
Classroom Technology	\$2,009,145	\$46,500
Classroom Construction	\$0	\$0
High- Tech Security	\$0	\$0
Unallocated Funds	\$201,111	

# INSTRUCTIONAL TECHNOLOGY VISION AND GOALS

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The purchases proposed in this plan are aligned with the district’s instructional technology plan and the District’s Plan for Excellence, our strategic plan. Some of the key elements from this technology plan are listed below which clearly demonstrate this link.

## **District Mission Statement**

We demonstrate our commitment to the whole child by

- providing rigorous opportunities in academics, the arts, and athletics;
- supporting the social, emotional, and developmental needs of all students;
- maintaining a focus on character development; and
- Engaging families and our community

## **District Vision Statement**

The Canandaigua City School District will lead and inspire a community of learners to fulfill their academic and creative potential.

## **Technology Mission Statement**

The Canandaigua City School District will use technology to enhance instruction, strengthen communication, ensure security and increase efficiency of operations while providing opportunities for students and staff to acquire the skills and knowledge necessary to succeed in an increasingly technology based global society.

## **Technology Vision Statement**

It is the vision of the Canandaigua City School District to create an environment where students, teachers, and staff have safe, secure, and reliable access for all to technology that fosters creativity, critical-thinking, and higher learning. Teachers will be facilitators of student learning through proficient and meaningful use of learning technologies to address multiple learning styles, to motivate and engage students, and to support student exploration and growth. Staff will also leverage technology to enable the most efficient and effective administration of K-12 education.

## Technology Purposes and Goals

### Technology at Canandaigua City School District will:

- Enable graduating students to have the necessary technology skills and proficiencies to be successful in the workforce and/or higher education.
- Be integrated into all areas of the curriculum to meet the needs of all learners.
- Support ongoing staff development opportunities.
- Be current, available and accessible to all students, faculty, staff and administration
- Improve the effectiveness of administrative tasks.
- Be used to collect, assess, and share performance information.
- Provide access to global information resources.
- Will be periodically re-evaluated to ensure that we are providing the most effective teaching and learning tools to our students and staff within the districts means.
- Will include technology training to all students, faculty, staff and administration in an effective, systematic, and on-going manner.
- Be secure, stable, reliable, inventoried, and well-maintained, including the use of appropriate back-up systems.
- Provide differentiated technology-based learning options to meet individual needs of students; explore alternative delivery of distance learning options for students, and; provide students with anytime/anywhere access to electronic content to support classroom instruction.
- Support communication, collaboration, and effective sharing of resources.
- Enable active communication between the school and community by providing a means of access to program descriptions, school activities, and student information.
- Provide opportunities for staff to utilize new and emerging technologies that enhance teaching and learning.
- Be used in a way to understand, practice and encourage the legal and ethical use of technology to maintain the highest level of security possible for confidential information.

## **Supporting Student Achievement through Devices**

The district has worked hard to use technology tools and resources to transform our teaching and learning environments across the district. The district believes that technology included in this plan can be a powerful vehicle to actively engage all students in learning. Using technology tools and resources such as Chromebooks and iPads utilizing Google Apps and Schoology learning management system, teachers are able to personalize learning, differentiating both the content and the pedagogical approaches depending on the needs of students. Teachers can extend learning beyond the hours of the day and the confines of the classroom. They can also create authentic learning experiences and connect students to resources that will greatly enhance their learning. These resources can include content, study tools, collaborative tools, tools for assessment, and also connections to experts in the field, as well as to teachers and other students. Technology can help transform learning largely from the inclusion of 21<sup>st</sup> century life and career skills including digital creation and innovation, group collaboration, effective navigation of information and media, and digital citizenship skills.

Technology is a beneficial tool for Students with Disabilities and English as a New Language students. Integration of technology allows them to participate, interact and work independently using a wide range of assistive tools and devices. The district's Special Education Department works directly with the District Technology Coordinator to insure that assistive technologies are available for all students who require their use, and both departments collaborate to make sure that the technology requirements of each student's IEP are met.

## PRECONDITIONS AND CRITICAL CONSIDERATIONS

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### **Smart Schools Investment Plan Committee**

As a requirement for the Smart Schools Bond Act, the planning process for developing and submitting a Smart Schools Investment Plan to the State Education Department must include consultation with parents, teachers, students, and community members. The following people served on the Canandaigua City School District Smart Schools Investment Committee / Technology Committee:

Dan Bowman – *Director of Technology (Co-Chair), Parent*  
Tracy Lindsay – *School District Data Specialist (Co-Chair)*  
Cheryl Birx – *Board Member, Community Member*  
Bill Patrowicz – *Board Member, Community Member, Parent*  
Ryan Hogan – *11th Grade Student*  
Ryan Bittel – *11th Grade Student*  
Jennifer Schneider – *Community Member, Parent*  
Julie Winston – *Assistant Superintendent for Instruction*  
Stephanie Knapp – *Director of Special Programs*  
Vern Tenney – *High School Principal, Community Member, Parent*  
Brian Amesbury – *Primary-Elementary Assistant Principal*  
Katie McFarland – *Director of Staff Development, Community Member, Parent*  
Steve Holmes – *Technology Staff Developer, Community Member*  
Rose Rhode – *Technology Support, Community Member*  
Greg Kane – *High School Music Teacher*  
Steve Schlegel – *High School Technology Teacher / CALT*  
Dave Platten – *High School Science Teacher, Community Member, Parent*  
Keith Pedzich – *High School English Teacher, Community Member, Parent*  
Melanie Dyroff – *Middle School Media Specialist*  
Kathy Mapstone – *Middle School Math Teacher, Community Member, Parent*  
Caroline Chapman – *Middle School Social Studies Teacher*  
Katherine Wells - *Primary-Elementary Teacher – Literacy Coach, Community Member, Parent*  
Jean Cirone – *Primary-Elementary Teacher – K, Community Member*  
Lynn Coleates – *Primary-Elementary Gifted & Talented Teacher 3-5th, Community Member, Parent*  
Heather Carson – *Primary-Elementary Teacher – 3rd, Community Member, Parent*

The Committee met on June 12, 2015, January 26, 2015, February 11, 2016, March 10, 2016, April 6, 2016, and June 9, 2016 to review the elements of the Smart Schools Bond Act and the required parameters of the Smart Schools Investment Plan, to identify district instructional technology strengths and needs, and to create the Smart Schools Investment Plan.

## **Adequate Technological Infrastructure**

The district currently exceeds the Federal Communications Commission minimum speed standard of 100 Mbps per 1,000 students with 400 Mbps for a student population of about 3650. Every classroom and instructional space has both wired and WiFi network access compatible with the devices included in this plan with one exception of four classrooms in our Canandaigua Academic & Career Center which lack WiFi access points. The district plans to add these classrooms to our existing wireless infrastructure in August of 2016 using the district IT budget. Listed below are the current speeds of the district infrastructure.

- Internet access to district – 400Mb
- Bandwidth between buildings – 20 Gb
- Inter-Building Bandwidth – 10 Gb
- Bandwidth to workstations – 1Gb
- WIFI standard implemented is 802.11n

## **Professional Development**

On-going professional development is a critical component of the district's Instructional Technology Plan. The district provides a wide range of professional development each year for our teachers, teaching assistants, administrators, and other staff. Some of these training topics include interactive white boards and smart notebook, Google Apps for Education, Schoology, Microsoft products, tablets, and Chromebooks. There are short weekly sessions in each building along with longer sessions offered after school and on Superintendent Conference days throughout the year addressing district supported applications that can be integrated into curriculum and instruction. The district strongly believes that the instructional and leadership staff, along with the technical support staff need higher-level professional development in order to continue in their roles. There is currently one-and-a-half staff members dedicated to instructional technology integration across the district. The district is committed and will continue to provide professional development on an on-going basis to the staff to allow them to utilize the technology tools and resources in the most effective manner possible. Additional technology personnel will be needed to support the integration of the new initiatives supported by the Smart Schools Bond. These positions will be included in the district's operating budget.



## **Technical Support**

The district is prepared to provide on-going tech support to ensure that the technology purchased with funds from the Smart Schools Bond Act will be distributed, prepared for use, maintained, and supported appropriately. The district currently employs eight technicians who maintain both the district's classroom technology and supporting infrastructure. We feel that there is a need for an additional support position responsible for the student assigned devices purchased with the Smart Schools funds. This position was included in the 2016-17 budget proposal approved by the Board of Education in April 2016. This position along with current staff will be able to maintain the proposed Smart Schools funded technology proposed in this plan. We will constantly monitor the technical support requirements and adjust staff through the district's budget process when needed.

## **Contact with SUNY**

District representatives met with the following SUNY representatives on October 30, 2015 to obtain advice on innovative uses and best practices at the Intersection of pedagogy and educational technology.

*Anjoo Sikka, Dean, Ella Cline Shear School of Education, SUNY at Geneseo,  
Marcia Burrell, Department Chair, Curriculum & Instruction, School of Education, SUNY at Oswego and  
Thomas J. Hernández, Interim Dean, School of Education & Human Services, SUNY College at Brockport.*

## Sustainability

The district is committed to the sustainability of infrastructure and devices purchased through the Smart Schools Bond Act. The district will include the Smart Schools Bond purchases into the district equipment inventory, update schedule, and replacement cycle. Each year the district allocates funds for the normal repair and/or replacement cost based on a percentage of the total learning devices in the district. The district and the Board of Education will make every effort to provide sustainability of the investment in technology for instruction including increases to the technology budget. The district's replacement cycle for the items listed in this plan are as follows:

iPad – 3 Years

Chromebook – 3 years

Classroom Audio System – 15 Years

Interactive Display Panel - 10 Years

The deployment of the student and staff assigned Chromebooks will occur over the next three school years. This phased deployment of roughly one-third each year allows the district to keep the budget needed for the replacement of the devices relatively constant considering the three year life cycle of these devices. During this initial three year deployment schedule the Board of Education plans on increasing the technology budget to support roughly one-half of the cost of the replacement cycle. The Board of Education will then propose to the public the creation of a Technology Reserve fund during the 2016-17 budget vote. Every attempt will be made to fund this reserve each year using fund balance. The combination of these two funding sources will allow for the funding of the annual replacement cycle of computing devices in the district. Leveraging both of these funding sources enables the district to allow for purchasing fluctuations due to different hardware replacement cycles. This technology reserve fund will also allow for the district to add additional funds each year with the goal of replacing technology equipment with higher values and longer life cycles such as classroom audio systems, interactive display panels, and wireless and wired network devices.

## Inclusion of Nonpublic Schools

The Canandaigua Smart Schools Investment Plan includes the purchase of technology hardware designated to be loaned to nonpublic schools within the district boundaries.

The district has consulted with the administration of the St. Mary's School in Canandaigua, New York and the Calvary Chapel Academy in Farmington, New York to develop a plan for the loan of classroom technology purchased by the district with Smart Schools Bond Act funding. Similar to the Computer Hardware Loan Program, the lending school district would retain ownership of the devices and responsibility for maintenance and repair.

St. Mary's has requested the following items to be loaned to their students.

Expenditure Type	Item to be purchased	Quantity	Cost per Item	Total Cost
Chromebooks	Dell Chromebook 11 – Touch Enabled	73	\$320	\$23,360
SMART board	65" SMART interactive flat panel display with wall mount and cables	3	\$4,200	\$12,600
HDMI Cable	MonoPrice 20ft HDMI Cable	3	\$25	\$75
LCD Wall Mount	PEERLESS TILT MOUNT 39-80" TAA	3	\$84	\$252
Undetermined	Nonpublic Undetermined Expenditures	1	\$213	\$213
				<b>\$36,500</b>

Calvary Chapel Academy has requested the following items to be loaned to their students.

Expenditure Type	Item to be purchased	Quantity	Cost per Item	Total Cost
SMART board	65" SMART interactive flat panel display	2	\$4,200	\$8,400
Mobile SMART board Cart	CHIEF UNIVERSAL MOBILE PLASMA CART	1	\$550	\$550
LCD Wall Mount	PEERLESS TILT MOUNT 39-80" TAA	1	\$84	\$84
HDMI Cable	MonoPrice 20ft HDMI Cable	2	\$25	\$50
Undetermined	Nonpublic Undetermined Expenditures	1	\$916	\$916
				<b>\$10,000</b>

St. Mary's School reported to the NYS Education department an enrollment of 146 students and Calvary Chapel Academy 40 in grades K-12 for the 2014-15 school year. The Smart Schools Bond Act guidance document states that classroom technology in an aggregate amount no greater than two hundred and fifty dollars (\$250) multiplied by the nonpublic school enrollment in the base year at the time of enactment can be loaned to the non-public school. St Mary's is entitled a maximum value of \$36,500 and Calvary Chapel \$10,000 in loaned equipment purchased with the Smart Schools Bond funds using this formula.

Submissions of requests from the nonpublic schools must be submitted to the district by June 1 of the school year prior to the actual loan request. These requests must include information on specific devices being purchased.

# PROPOSED CLASSROOM LEARNING TECHNOLOGY

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The Canandaigua City School District Smart Schools Investment Plan is to provide the following devices over a three year period. The outline below shows the purchases that will be made for each plan year.

## Year 1 (2016/17)

- Chromebook and case for each Middle School and Canandaigua Academic & Career Center student.
- Chromebook and case for each Middle School, High School and Canandaigua Academic & Career Center teaching staff member.
- Classroom audio enhancement systems for each standard sized classroom in the district to allow the teachers voice to be amplified and distributed throughout the classroom.

## Year 2 (2017/18)

- Chromebook and case for each Academy student
- Chromebook and case for each teaching staff members of the Primary Elementary School grades 3-5.
- iPad and case for each teaching staff members of the Primary Elementary School grades PreK-2

## Year 3 (2018/19)

- Chromebook for each Primary Elementary student in grades 3-5.
- Chromebook charging cart for each grade 3-5 classroom
- iPad for each Primary Elementary student in grades PreK-2.
- iPad charging cart for each grade PreK-2 classroom

The following chart summarizes the total costs outlined in the above three year plan.

Expenditure Type	Item to be purchased	Quantity	Cost per Item	Total Cost
Chromebooks	Dell Chromebook 11 – Touch Enabled	3,043	\$320	\$973,760
Chromebook Case	Belkin Air-Protect 11-inch Always-On Slim Case	3,043	\$25	\$76,075
Charging Cart	Earthwalk 30 slot Charging Cart	80	\$2,250	\$180,000
iPad	Apple iPad Air 2 32Gb Tablet	788	\$380	\$299,440
iPad Case	GumDrop Hideaway Case for iPad Air 2	788	\$60	\$47,280
iPad Charging Rack	Belkin Tablet Store-and-Charge Station	3	\$200	\$600
Classroom Amplification System	Audio Enhancement Sentinel XD System Pal - 4 Ceiling Speakers (KIT)	187	\$1,320	\$246,840
4 Speaker Classroom Amplification System Installation		187	\$590	\$110,330
Classroom Amplification System (existing speakers)	Audio Enhancement - Sentinel XD System Pal - No Speakers or Speaker wires	58	\$1,200	\$69,600
Existing speaker Classroom Amplification System Installation		58	\$90	\$5,220
				<b>\$2,009,145</b>

To learn more about the Smart Bond Act including FAQs and Guidelines go to:  
[http://www.p12.nysed.gov/mgtserv/smart\\_schools/](http://www.p12.nysed.gov/mgtserv/smart_schools/)

**Please direct any questions or comments to:**

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