Smart Schools Investment Plan - 2016-17 Version (Original) - SSIP 2

SSIP Overview

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Institution ID

800000039875

1. **Please enter the name of the person to contact regarding this submission.**

   Theresa Carlin

   1a. **Please enter their phone number for follow up questions.**

   607 638 5530

   1b. **Please enter their e-mail address for follow up contact.**

   tcarlin@schenevuscsd.org

2. **Please indicate below whether this is the first submission, a new or supplemental submission or an amended submission of an approved Smart Schools Investment Plan.**

   Supplemental submission

3. **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.**

   By checking this box, you certify that the school district has an approved District Instructional Technology Plan survey on file with the New York State Education Department.

   ☑   District Educational Technology Plan Submitted to SED and Approved

4. **Pursuant to the requirements of the Smart Schools Bond Act, the planning process must include consultation with parents, teachers, students, community members, other stakeholders and any nonpublic schools located in the district.**

   By checking the boxes below, you are certifying that you have engaged with those required stakeholders. Each box must be checked prior to submitting your Smart Schools Investment Plan.

   ☑   Parents
   ☑   Teachers
   ☑   Students
   ☑   Community members

   4a. **If your district contains non-public schools, have you provided a timely opportunity for consultation with these stakeholders?**

   ☐   Yes
   ☐   No
   ☑   N/A

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5. **Certify that the following required steps have taken place by checking the boxes below: Each box must be checked prior to submitting your Smart Schools Investment Plan.**

- ☑ The district developed and the school board approved a preliminary Smart Schools Investment Plan.
- ☑ The preliminary plan was posted on the district website for at least 30 days. The district included an address to which any written comments on the plan should be sent.
- ☑ The school board conducted a hearing that enabled stakeholders to respond to the preliminary plan. This hearing may have occured as part of a normal Board meeting, but adequate notice of the event must have been provided through local media and the district website for at least two weeks prior to the meeting.
- ☑ The district prepared a final plan for school board approval and such plan has been approved by the school board.
- ☑ The final proposed plan that has been submitted has been posted on the district's website.

5a. **Please upload the proposed Smart Schools Investment Plan (SSIP) that was posted on the district's website, along with any supporting materials. Note that this should be different than your recently submitted Educational Technology Survey. The Final SSIP, as approved by the School Board, should also be posted on the website and remain there during the course of the projects contained therein.**

SSIP2 public.pdf

5b. **Enter the webpage address where the final Smart Schools Investment Plan is posted. The Plan should remain posted for the life of the included projects.**

http://www.schenevuscsd.org/SmartSchoolsInvestmentPlan2.aspx

6. **Please enter an estimate of the total number of students and staff that will benefit from this Smart Schools Investment Plan based on the cumulative projects submitted to date.**

410

7. **An LEA/School District may partner with one or more other LEA/School Districts to form a consortium to pool Smart Schools Bond Act funds for a project that meets all other Smart School Bond Act requirements. Each school district participating in the consortium will need to file an approved Smart Schools Investment Plan for the project and submit a signed Memorandum of Understanding that sets forth the details of the consortium including the roles of each respective district.**

- ☐ The district plans to participate in a consortium to partner with other school district(s) to implement a Smart Schools project.

8. **Please enter the name and 6-digit SED Code for each LEA/School District participating in the Consortium.**

Partner LEA/District	SED BEDS Code
(No Response)	(No Response)

9. **Please upload a signed Memorandum of Understanding with all of the participating Consortium partners.**

(No Response)

10. **Your district's Smart Schools Bond Act Allocation is:**

$429,031

11. **Enter the budget sub-allocations by category that you are submitting for approval at this time. If you are not budgeting SSBA funds for a category, please enter 0 (zero.) If the value entered is $0, you will not be required to complete that survey question.**

	Sub-Allocations
School Connectivity	0
Connectivity Projects for Communities	

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	Sub-Allocations
	0
Classroom Technology	114,810
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	0
Totals:	**114,810**

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Classroom Learning Technology

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1. **In order for students and faculty to receive the maximum benefit from the technology made available under the Smart Schools Bond Act, their school buildings must possess sufficient connectivity infrastructure to ensure that devices can be used during the school day. Smart Schools Investment Plans must demonstrate that sufficient infrastructure that meets the Federal Communications Commission's 100 Mbps per 1,000 students standard currently exists in the buildings where new devices will be deployed, or is a planned use of a portion of Smart Schools Bond Act funds, or is under development through another funding source.**
   Smart Schools Bond Act funds used for technology infrastructure or classroom technology investments must increase the number of school buildings that meet or exceed the minimum speed standard of 100 Mbps per 1,000 students and staff within 12 months. This standard may be met on either a contracted 24/7 firm service or a "burstable" capability. If the standard is met under the burstable criteria, it must be:
   1. Specifically codified in a service contract with a provider, and
   2. Guaranteed to be available to all students and devices as needed, particularly during periods of high demand, such as computer-based testing (CBT) periods.
   Please describe how your district already meets or is planning to meet this standard within 12 months of plan submission.

   The district currently exceeds the Federal Communications Commission minimum speed standard of 100 Mbps per 1,000 students with 1 Gbps (1,000 Mbps) for a student population of 375.

   1a. **If a district believes that it will be impossible to meet this standard within 12 months, it may apply for a waiver of this requirement, as described on the Smart Schools website. The waiver must be filed and approved by SED prior to submitting this survey.**

   ☐ By checking this box, you are certifying that the school district has an approved waiver of this requirement on file with the New York State Education Department.

2. **Connectivity Speed Calculator (Required)**

	Number of Students	Multiply by 100 Kbps	Divide by 1000 to Convert to Required Speed in Mb	Current Speed in Mb	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	375	37,500	37.5	125	125	NA

3. **If the district wishes to have students and staff access the Internet from wireless devices within the school building, or in close proximity to it, it must first ensure that it has a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand.**
   Please describe how you have quantified this demand and how you plan to meet this demand.

   The District's current Wi-Fi network has sufficient bandwidth to meet projected user demand. The District's current Wi-Fi network is enterprise grade and offers gigabit bandwidth between each access point and it's corresponding central switch. The access points have dual-band radios, and redundant APs are in-place in potential high-usage locations. The enterprise Wi-Fi system operates on a Cat6E cabling "backbone".

4. **All New York State public school districts are required to complete and submit an 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 educational technology purchases 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.

   ☑ By checking this box, you are certifying that the school district has an approved Instructional Technology Plan survey on file with the New York State Education Department.

5. **Describe the devices you intend to purchase and their compatibility with existing or planned platforms or systems. Specifically address the adequacy of each facility's electrical, HVAC and other infrastructure necessary to install and support the operation of the planned technology.**

The District will be purchasing interactive whiteboards and interactive projectors to enhance classroom instruction and increase student engagement in fourteen classrooms grades PK-12.

The District will be purchasing iPad tablets for students in grades PK-1 and touch-screen Chromebooks for students in grades PK-12 to support and maintain the current 1:1 instructional technology initiative. These devices are compatible with the District's current WiFi network and use of Google Apps for Education which includes: Google Classroom, Gmail, Drive, Calendar, Vault, Docs, Sheets, Slides, and Sites. All students, faculty and staff have Google accounts.

The District will be purchasing laptop computers and desktop computers for staff use in classroom instruction, lesson planning, and student, staff, and parent communication and collaboration. Laptop computers will also be purchased for student use in a high school digital literacy course.

The District will be purchasing a Google Virtual Reality classroom kit and 3D cameras for developing 3D content to increase student engagement.

The District will purchasing a drone with HD camera for use in the science and technology classes.

The District will be purchasing sound systems for each music classroom for instructional purposes.

The District will be purchasing document cameras to enhance instruction in secondary classes.

Every classroom and instructional space has network cable and WiFi network access to facilitate effective use of these devices.

Items listed as "Other" in the detailed expenditures are being purchased to support the hardware items described in this descriptive.

Cables are being purchased to support various devices.

Monitors and additional storage are being purchased to support the computers.

6. **Describe how the proposed technology purchases will:**
   - **> enhance differentiated instruction;**
   - **> expand student learning inside and outside the classroom;**
   - **> benefit students with disabilities and English language learners; and**
   - **> contribute to the reduction of other learning gaps that have been identified within the district.**

   The expectation is that districts will place a priority on addressing the needs of students who struggle to succeed in a rigorous curriculum. Responses in this section should specifically address this concern and align with the district's Instructional Technology Plan (in particular Question 2 of E. Curriculum and Instruction: "Does the district's instructional technology plan address the needs of students with disabilities to ensure equitable access to instruction, materials and assessments?" and Question 3 of the same section: "Does the district's instructional technology plan address the provision of assistive technology specifically for students with disabilities to ensure access to and participation in the general curriculum?"

Readily accessible technology is the surest way to flip the classroom and place the learning, quite literally, in the hands and responsibility of the student. Through the use of Schoology, Google Apps like Read & Write, Speak It, Read Comfortable and iSpeech, students will be able to differentiate the way they read, write and explore the exchange of ideas and information in an online setting. Teachers can create forms, classrooms and instructional sites that will enable them to embed instructional videos and documents to help students navigate assignments. Student learning will continue outside the normal forty minute class period as students will have the materials available to them online. Scaffolding support can be provided to struggling students in the online classrooms. Students with disabilities can have testing accommodations done prior to exam time and, as appropriate, administered in the general education setting rather than separate locations. Research has also shown that text to speech has benefits for a broad range of students, not just those with identified testing accommodations. Students will have access their documents through Google Drive accounts which limits the amount of time they spend searching for lost materials and assignments.

VR technology along with a 3D camera and drone will help all students explore content in new ways, as well as create their own content, engaging them beyond the classroom learning construct.

Interactive whiteboards, chromebooks, iPads, laptops, and desktops are utilized by staff and students as a part of the district's 1:1 technology initiative to develop and support individualized instruction as unique as each child.

7. **Where appropriate, describe how the proposed technology purchases will enhance ongoing communication with parents and other stakeholders and help the district facilitate technology-based regional partnerships, including distance learning and other efforts.**

The proposed technology purchases will help teachers to expand online learning environments through Google Classroom and Google Sites. By embedding instructional videos and documents directly in assignments, students will be able to access additional resources while at home. When confused about an assignment, parents will be able to utilize those resources to help their children. Besides the added benefit of help with assignments and studying, access to their child's online learning environment keeps parents up to date on what is happening with the curriculum. Learning in the online environment also creates a documented record of student engagement and participation. This information is useful when discussing student growth with parents. Shared resources between teachers also help monitor student behavior and growth thereby improving the quality of information that can be shared between home and school.

Using our current distance learning facilities, the district partners with BOCES, other districts throughout the region, Hudson Valley Community College, Herkimer County Community College, SUNY Delhi, and Syracuse University to expand program offerings to our students. The technology purchases in this plan will help expand these regional partnerships to include more blended and online courses.

8. **Describe the district's plan to provide professional development to ensure that administrators, teachers and staff can employ the technology purchased to enhance instruction successfully.**

   Note: This response should be aligned and expanded upon in accordance with your district's response to Question 1 of F. Professional Development of your Instructional Technology Plan: "Please provide a summary of professional development offered to teachers and staff, for the time period covered by this plan, to support technology to enhance teaching and learning. Please include topics, audience and method of delivery within your summary."

The District has employed a part-time staff developer/teacher whose focus is instructional technology. The staff developer will provide monthly and quarterly workshops on best practices in instructional technology as well as daily support to classroom teachers. Explicit instruction using the proposed technology is also provided to students K-12.
The focus of instructional technology workshops will include:
- Device-specific introductory, intermediate, and advanced use workshops.
- Using Google Drive to improve student organization and collaboration.
- Using Google Forms and Sheets to streamline grading and improve feedback.
- Using Google Classroom to build and maintain a functional, accessible, and successful classroom in which students takes greater responsibility for their own learning.
- Using Schoology Learning Management System
- Improving parent communication through the use of technology.

Some classroom teachers have taken a lead role in using instructional technology in their own classrooms. These teachers are provided with time and opportunity to network with other faculty and staff to expand their own understanding and to assist in the implementation of effective instructional technology use in other classrooms.
The district has collaborated with the SUNY Oneonta Educational Technology Department for the 2015-16 school year and will again for the 2016-17 school year. SUNY Oneonta master's degree students and undergraduate students and school district faculty will participate in professional development workshops focused on instructional technology. Students in SUNY Oneonta Educational Technology program and classes will also begin to conduct field experiences at Schenevus Central School.

9. **Districts must contact the SUNY/CUNY teacher preparation program that supplies the largest number of the district's new teachers to request advice on innovative uses and best practices at the intersection of pedagogy and educational technology.**

   ☑ By checking this box, you certify that you have contacted the SUNY/CUNY teacher preparation program that supplies the largest number of your new teachers to request advice on these issues.

   9a. **Please enter the name of the SUNY or CUNY Institution that you contacted.**

   SUNY Oneonta

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9b.   **Enter the primary Institution phone number.**

607 436 2630

9c.   **Enter the name of the contact person with whom you consulted and/or will be collaborating with on innovative uses of technology and best practices.**

Elaine M. Lawrence, Ph.D.

10.   **A district whose Smart Schools Investment Plan proposes the purchase of technology devices and other hardware must account for nonpublic schools in the district.**

Are there nonpublic schools within your school district?

☐   Yes
☑   No

11.   **Nonpublic Classroom Technology Loan Calculator**
The Smart Schools Bond Act provides that any Classroom Learning Technology purchases made using Smart Schools funds shall be lent, upon request, to nonpublic schools in the district. However, no school district shall be required to loan technology in amounts greater than the total obtained and spent on technology pursuant to the Smart Schools Bond Act and the value of such loan may not exceed the total of $250 multiplied by the nonpublic school enrollment in the base year at the time of enactment.
See:
http://www.p12.nysed.gov/mgtserv/smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf.

	1. Classroom Technology Sub-allocation	2. Public Enrollment (2014-15)	3. Nonpublic Enrollment (2014-15)	4. Sum of Public and Nonpublic Enrollment	5. Total Per Pupil Sub-allocation	6. Total Nonpublic Loan Amount
Calculated Nonpublic Loan Amount	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

12.   **To ensure the sustainability of technology purchases made with Smart Schools funds, districts must demonstrate a long-term plan to maintain and replace technology purchases supported by Smart Schools Bond Act funds. This sustainability plan shall demonstrate a district's capacity to support recurring costs of use that are ineligible for Smart Schools Bond Act funding such as device maintenance, technical support, Internet and wireless fees, maintenance of hotspots, staff professional development, building maintenance and the replacement of incidental items. Further, such a sustainability plan shall include a long-term plan for the replacement of purchased devices and equipment at the end of their useful life with other funding sources.**

☑   By checking this box, you certify that the district has a sustainability plan as described above.

13.   **Districts must ensure that devices purchased with Smart Schools Bond funds will be distributed, prepared for use, maintained and supported appropriately. Districts must maintain detailed device inventories in accordance with generally accepted accounting principles.**

☑   By checking this box, you certify that the district has a distribution and inventory management plan and system in place.

14.   **If you are submitting an allocation for Classroom Learning Technology complete this table.**
Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Interactive Whiteboards	13,300
Computer Servers	0

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	Sub-Allocation
Desktop Computers	3,000
Laptop Computers	33,800
Tablet Computers	6,300
Other Costs	58,410
Totals:	**114,810**

15. **Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through smartschools@nysed.gov.**
Please specify in the "Item to be Purchased" field which specific expenditures and items are planned to meet the district's nonpublic loan requirement, if applicable.
NOTE: Wireless Access Points that will be loaned/purchased for nonpublic schools should ONLY be included in this category, not under School Connectivity, where public school districts would list them.
Add rows under each sub-category for additional items, as needed.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
Other Costs	Epson BrightLink 695WiProjector	14	1,700	23,800
Interactive Whiteboards	Da-lite 53	14	950	13,300
Other Costs	speakers for BrightLink Projector	14	150	2,100
Other Costs	Ultra Short Throw Wall Mount Kit	14	100	1,400
Desktop Computers	Desktop Computers	5	600	3,000
Other Costs	IPS Monitors	10	200	2,000
Other Costs	Samsung Solid State Storage Media	5	110	550
Other Costs	Western Digital 2 Tb Storage Media	2	135	270
Laptop Computers	Windows Flip with SSD	16	800	12,800
Laptop Computers	Acer Chromebooks	60	350	21,000
Other Costs	Google Chrome Mgnt. licenses	60	27	1,620
Other Costs	Acer Chargers	40	25	1,000
Tablet Computers	(10-pack) Apple Ipad Wi-Fi 32gb	2	3,000	6,000
Other Costs	Ipad Cases	20	30	600
Tablet Computers	Digital Drawing and Graphics Tablets	3	100	300
Other Costs	AC Desktop Charging Stations	7	120	840
Other Costs	Google Virtual Reality kit for 20 students	1	6,000	6,000
Other Costs	3D Camera Kit	2	500	1,000

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Classroom Learning Technology

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Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
Other Costs	Drone with HD Camera	1	1,400	1,400
Other Costs	AV Cart with Locking Cabinet	1	200	200
Other Costs	HDMI Extender over TCP/IP or Cat5e/Cat6	4	120	480
Other Costs	AV Access HDMI Extender (HDBaseT)	1	135	135
Other Costs	High Speed HDMI Cable (6 Ft) With Ethernet	10	5	50
Other Costs	High Speed HDMI Cable (30 Ft) With Ethernet	30	10	300
Other Costs	High Speed HDMI Cable (50 Ft) With Ethernet	10	36	360
Other Costs	(1x 3.5mm 1x HDMI) Stainless Steel Wallplate	2	50	100
Other Costs	HDMI Splitters	5	25	125
Other Costs	Ziggy HD Document Cameras	6	100	600
Other Costs	HD Projector	1	3,500	3,500
Other Costs	External DVD/RW Drives	5	30	150
Other Costs	QSC TouchMix-8 Compact Digital Mixer	2	860	1,720
Other Costs	QSC K12 Powered Live Speaker	4	780	3,120
Other Costs	QSC Dual 12	4	1,050	4,200
Other Costs	QSC Forged Shoulder Steel Eyebolt Kit for K Series	4	55	220
Other Costs	Ultimate Support TS80B Speaker Stands	4	75	300
Other Costs	Ultimate Support Bag	2	40	80
Other Costs	Kramer 25 Foot XLR Cabling	2	15	30
Other Costs	Kramer 50 Foot XLR Cabling	2	30	60
Other Costs	Mpow Bluetooth 4.1 Receiver	4	25	100