

## Smart Schools Investment Plan - 2-1617

## SSIP Overview

Page Last Modified: 07/26/2017

## Group 1

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

James Luckman

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

716-795-9263

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

jluckman@barkercsd.net

2. Please indicate below whether this is the first submission, a new or supplemental submission or an amended submission of a 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

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 occurred 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.

## Smart Schools Investment Plan - 2-1617

## SSIP Overview

Page Last Modified: 07/26/2017

- 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.

BCS\_SmartSchoolsInvestmentPlan\_2-1617\_Final.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.barkercsd.net/domain/40

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.

819

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:

\$596,160

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	0
Classroom Technology	176,458
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	0
<b>Totals:</b>	<b>176,458</b>

## Smart Schools Investment Plan - 2-1617

## School Connectivity

Page Last Modified: 04/19/2017

## Group 1

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.

(No Response)

- 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	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

3. Describe how you intend to use Smart Schools Bond Act funds for high-speed broadband and/or wireless connectivity projects in school buildings.

(No Response)

4. Describe the linkage between the district's District Instructional Technology Plan and the proposed projects. (There should be a link between your response to this question and your response to Question 1 in Part E. Curriculum and Instruction "What are the district's plans to use digital connectivity and technology to improve teaching and learning?")

(No Response)

## Smart Schools Investment Plan - 2-1617

## School Connectivity

Page Last Modified: 04/19/2017

5. 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.

(No Response)

6. As indicated on Page 5 of the guidance, the Office of Facilities Planning will have to conduct a preliminary review of all capital projects, including connectivity projects.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

7. Certain high-tech security and connectivity infrastructure projects may be eligible for an expedited review process as determined by the Office of Facilities Planning.

Was your project deemed eligible for streamlined review?

(No Response)

8. Include the name and license number of the architect or engineer of record.

Name	License Number
(No Response)	(No Response)

9. If you are submitting an allocation for School Connectivity 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
Network/Access Costs	(No Response)
Outside Plant Costs	(No Response)
School Internal Connections and Components	(No Response)
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

## Smart Schools Investment Plan - 2-1617

School Connectivity

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Page Last Modified: 04/19/2017

10. 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 eligible for tax-exempt financing to be reimbursed through the SSBA. Sufficient detail must be provided so that we can verify this is the case. If you have any questions, please contact us directly through [smartschools@nysed.gov](mailto:smartschools@nysed.gov).  
**NOTE: Wireless Access Points should be included in this category, not under Classroom Educational Technology, except those that will be loaned/purchased for nonpublic schools.**  
**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
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

## Smart Schools Investment Plan - 2-1617

Community Connectivity (Broadband and Wireless)

Page Last Modified: 04/19/2017

## Group 1

1. Describe how you intend to use Smart Schools Bond Act funds for high-speed broadband and/or wireless connectivity projects in the community.

(No Response)

2. Please describe how the proposed project(s) will promote student achievement and increase student and/or staff access to the Internet in a manner that enhances student learning and/or instruction outside of the school day and/or school building.

(No Response)

3. Community connectivity projects must comply with all the necessary local building codes and regulations (building and related permits are not required prior to plan submission).

☐ I certify that we will comply with all the necessary local building codes and regulations.

4. Please describe the physical location of the proposed investment.

(No Response)

5. Please provide the initial list of partners participating in the Community Connectivity Broadband Project, along with their Federal Tax Identification (Employer Identification) number.

Project Partners	Federal ID #
(No Response)	(No Response)

6. If you are submitting an allocation for Community Connectivity, 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
Network/Access Costs	(No Response)
Outside Plant Costs	(No Response)
Tower Costs	(No Response)
Customer Premises Equipment	(No Response)
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

7. 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](mailto:smartschools@nysed.gov).

Add rows under each sub-category for additional items, as needed.

**Smart Schools Investment Plan - 2-1617**Community Connectivity (Broadband and Wireless)

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Page Last Modified: 04/19/2017

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

## Smart Schools Investment Plan - 2-1617

## Classroom Learning Technology

Page Last Modified: 07/27/2017

## Questions

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.

As a precondition to utilizing allocated Smart Schools Bond Act funds the District has confirmed that current bandwidth exceeds the Federal Communications Commission minimum speed standard of 100 Mbps per 1,000 students to sustain the increase of classroom devices. The Barker Central School District is currently equipped with a high speed 10 GB LAN and 1 GB WAN access through Erie 1 BOCES. A robust Wi-Fi network is currently installed to provide sufficient bandwidth to meet user demand and provide seamless connectivity for staff and student wireless devices.

- 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	819	81,900	81.9	1000	1000	Currently Met

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.

Network infrastructure including wireless access has been upgraded over the last five years and a plan to expand the wireless capacity using E-rate funds has been approved for the District by the Universal Service Administrative Company. The expansion project is currently in process and will be complete by June 2017. While current wireless access adequately provides high levels of throughput for devices, the upgraded wireless system will provide improved speed and reliability for additional devices. Network traffic is regularly monitored and managed to provide high quality transmission for all devices.



**Smart Schools Investment Plan - 2-1617**Classroom Learning Technology

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Page Last Modified: 07/27/2017

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 seek approval for purchases in the classroom technology category. The District plans to purchase 70" interactive panels to drive classroom instruction and enhance learning opportunities for students. The interactive panels will replace current projector and screen technology to provide optimal support of mobile device integration and interactivity for teaching and learning. The interactive panels will be compatible with existing mobile device implementations including Chromebooks, iPads, Apple TV, laptops and Microsoft surface tablets. These interactive panels will also provide a seamless interface between desktop computers and use of instructional software including Google classroom, Microsoft Office 365, Schoology, Edmodo, web based instructional resources, digital literacy solutions, digital citizenship initiatives, online assessment readiness, real-time review and formative assessment applications and presentation of student work and instructional materials. These devices will be compatible with our current network infrastructure including hardwire connection to our local area network. Classroom interactive panels support innovative classroom initiatives, collaboration, blended learning, virtual learning spaces and digital learning management systems to assist in the development of readiness for college and career.

The implementation of digital classroom solutions and learning management systems for teachers increases the need for student device accessibility.

The District currently uses mobile devices, but seeks to provide greater access to support the adoption of learning management systems and digital instructional strategies. To support teaching and learning in each school building through provision of mobile computing access for teachers and students, this proposal includes the acquisition of Chromebooks and secure charging carts. These mobile devices will extend learning opportunities for students and develop transparency with computer literacy skills and access to digital content and assignments. The potential for collaborative work with pairing mobile and digital learning initiatives will continue to develop as a powerful tool to improve learning.

The District also seeks approval for the acquisition of classroom, sound field system technology to improve the teaching and learning environment.

Students in classrooms may encounter sound distractions that interfere with instruction. Sound field systems carefully implemented in classrooms with quality mixing and amplification devices can assist in effectively delivering voice and other selected media throughout the listening environment.

These systems greatly enhance speech understanding and provide an even distribution of sound from the teacher, the students and any equipment delivering sound. This classroom technology helps students hear clearly and improves attentiveness, concentration, comprehension and participation.

District initiatives to implement and integrate STEM education pairs with investment in classroom technology equipment. LEGO MINDSTORMS is a programmable robotics construction set offering power to build, program and command LEGO robots. The implementation of this curriculum and classroom technology with our middle level students will provide foundational knowledge of programming and construction to support this motivating, engaging and real-world initiative. The acquisition of this classroom technology equipment will support this inquiry-based, student-centered environment and promote critical, creative and innovative thinking.

**Smart Schools Investment Plan - 2-1617**Classroom Learning Technology

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Page Last Modified: 07/27/2017

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?"

The District has worked to implement technology tools and a wide range of technology related resources to improve instructional practices and provide new learning opportunities across the District. Technology can be an influential tool for actively engaging learners at all levels. The use of technology tools in the classroom allow teachers to individualize learning and provide differentiated instructional techniques tailored to the needs of each student. Technological tools can help transform learning processes and provide extensions for content, review, collaboration, assessment and access. District staff continually identify achievement gaps and focuses technology implementations to improve these areas. The District Director of Instructional Services works collaboratively with the technology staff to provide assistive technology tools as needs are determined. English Language Learners will be provided with specialized interactive applications and learning tools to develop proficiency with this alternative learning interface. District Special Education, Response to Intervention and student management systems will keep instructional staff aware of special needs, individualized education program requirements, interventions and special program initiatives for students. Instructional and identified support staff will be provided with special needs classifications and guidelines.

Interactive classroom panel technology will increase student engagement and provide opportunities to enhance differentiated instruction through the provision of simultaneous, multi-touch student manipulation, small group work centers or whole group instruction. Multimedia presentations can be tailored for individual students. Students needing support can use the interactive panels independently in a format that is challenging yet engaging for students. Students can be provided with individual support and enrichment, as necessary, through the use of video presentations or interactive apps to help solve problems and provide enhanced differentiated instruction.

The acquisition of additional mobile devices and student personal devices connecting with the interactive panels will support flipped learning initiatives, presentation of work and real-time, formative assessments. The opportunity for integration of blended instructional practices, collaboration and virtual experiences will expand teaching and learning strategies. The contribution of this versatile technology tool will assist in reducing learning gaps and provide ease of access and integration of instructional software resources. Student access to Chromebooks, iPads, laptops, Surface tablets and other tools will provide greater interactivity, support learning mechanisms and facilitate effective learning management system initiatives and digital classroom implementations. Students with disabilities will experience increased access in an enhanced learning environment through the versatility of the panel as a collaborative table device or specialized configurations. Mobile devices and interactive classroom panels provide alternative and stimulating interfaces to enhance the learning experience for student with specialized learning needs. Technology accommodations will be provided as determined for each student to allow access to physical, behavioral or educational programs and applications required to meet individual needs.

This proposed technology purchase will assist the district in the implementation of the New York State Common Core Learning Standards. The WHST.6-12.6 Common Core Learning Standard for students in grades 6-12 includes the use of technology, including the Internet, to produce, publish and present information and ideas clearly, taking advantage of technology's capacity to link to other information and to display information flexibly and dynamically. The interactive panels are able to link multiple areas including, but not limited to, the Internet and device apps so that students can display their work or present writing products in order to engage a response and receive ongoing feedback. The interactive panel has the ability to allow students to present ideas using multimedia, including the internet, to present and publish work that they have created whether it is written, digital video, or photography format. Students can visually display created work to parents and other stakeholders in a digital and visual format. The Common Core Reading Standard RH.6-12.7 requires students to be able to integrate technical information expressed in words to be expressed visually and to use media in order to address a question or solve a problem. The interactive panel technology will allow teachers and students to gather video and multimedia information and be able to include visuals to translate information expressed verbally to a visual format. College and Career Readiness Anchor Standards for Writing (#6 & #8) also directs students to use technology, including the Internet, to produce and publish writing and to interact and collaborate with others. The interactive panel technology provides an excellent vehicle for the production and presentation of student generated work.

**Smart Schools Investment Plan - 2-1617**Classroom Learning Technology

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Page Last Modified: 07/27/2017

Implementation of classroom interactive panels and mobile devices will expand student learning through access to external learning resources and accessibility to instructional content, assignments, collaborative projects, digital literacy skill development and CBT readiness. The Internet compatible interactive classroom panels will allow videos and other multimedia presentations to transparently integrate with instructional practices and software. The panels will communicate with devices the district currently manages and students can take advantage of personally owned devices and new virtual learning opportunities. The interactive panels will allow students to collaborate with others, research, collect data, and communicate with experts. This hands-on learning will engage all students, impacting at-risk, special needs and the general education population.

**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 proposal for classroom technology through the Smart Schools Bond Act will greatly increase capacity for teaching and learning through the facilitation of blended learning, distance learning opportunities, online conferencing and homebound instruction. The purchase of the interactive classroom panels and mobile computing devices will enhance ongoing communication with students and parents through the implementation of online, digital classroom environments where students and parents can access course descriptions, assignments, grades, content, assessments, presentations, resources and interact with the classroom teacher(s). The facilitation of technology-based regional partnerships can be fostered through the inclusion of distance learning and blended learning initiatives provided through the panel interface. The interactive panels will provide an engaging experience for virtual fieldtrips, video conferencing, collaborative projects and live announcements throughout the district. The interactive panels allow students to present work to parents and other stakeholders. As they are Internet compatible, they would facilitate communication via Skype or other programs such that students and teachers can communicate with regional partners. The use of mobile devices for the purpose of communication will become instrumental for access of digital content and resources from any location including the ability to download content for use in an area where Internet may not be available. This is extremely important as this is a rural district and direct communication is limited due to distance. The development of community technology awareness training sessions, adult education programs and student technology fairs to show-case projects and initiatives will be an extension of the instructional devices acquired to communicate and educate parents and community members. The district is also working with several higher learning institutions include Niagara County Community College, Niagara University, University at Buffalo and Rochester Institute of Technology to provide higher and advanced learning experiences for our students.

**Smart Schools Investment Plan - 2-1617**

## Classroom Learning Technology

Page Last Modified: 07/27/2017

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."**

Professional development is a critical component of the District Instructional Technology Plan and the District Smart Schools Investment Plan. The commitment to provide professional development in a variety of ways allows staff to learn how to utilize technology tools and resources to develop innovative instructional methods. Technology related professional development is offered through a variety of ways on a continued basis throughout the school year and summer months.

Interactive classroom panels and mobile computing devices will be acquired for classrooms throughout the Barker Central School District. With the installation of the panels, teachers will receive professional development, which will provide training for full use of the interactive capabilities of the panels. The District has invested in fully synchronized, enterprise solutions for Google Education, Microsoft Office 365 and Schoology to provide digital learning platforms for all students and staff. Training on all of these systems is available to all teachers and formalized training occurs in classrooms for students. BOCES and school technology trainers hold workshops for students, teachers, administrators, staff, parents and community members. Primary level teachers explore how the panels can be used with young learners with an emphasis on software to design interactive lesson content and the integration of digital instructional resources. Separate training sessions for special education and academic intervention specialists are offered on how to best implement the use of the panels and Chromebooks to maximize student results and accommodate various learning modalities. The District works closely with Erie 1 BOCES trainers through the Common Set of Learning Objectives COSER to deliver individual and group training integrating specific technology tools with curriculum and aligning infused lessons with technology learning standards and digital literacy benchmarks. District staff offer technology training sessions after regular school hours and provide training opportunities to district residents through the District Community Education Program. Local BOCES professional development opportunities are available for all district staff and specialized training opportunities are provided as necessary. The District is currently considering options for additional technology integration training and support as new technology is acquired and implemented through new funding opportunities. Professional development release time will be coordinated with staff through the use of substitute teachers and identified professional development conference days for investigation of new technology and specific training. Erie 1 BOCES and Orleans Niagara BOCES technology specialists and trainers will assist in the establishment of turn-key trainers in the use of the new interactive panels and develop strategies for curriculum integration and development.

Barker Central School District will provide time and access for all instructional staff with the means to develop a high level of proficiency with use of interactive panels, software, curricular integration and use of all integrated technology components. Professional development costs have been budgeted to provide complete training in the use of interactive classroom panel software, classroom devices, digital classroom solutions and curriculum development to support a complete solution for integration of these devices. Training will be made available during the summer months to prepare for a seamless implementation for the school year and continuous support and training will occur throughout the year before, during and after school hours as determined necessary. Technical support personnel will also be trained in the use and maintenance for the interactive classroom panels to properly support and troubleshoot any issues instructional staff encounter. Technology turn-key trainers will be provided the opportunity to attend specialized technology conferences, i.e. NYSCATE (New York State Association for Computers and Technologies in Education) conference, to remain current with educational technology trends and resources. Instructional staff will be supported to develop the skills and knowledge necessary to accommodate diverse student population needs. The panels will provide a vehicle to deliver online, on-demand professional development and teleconferencing which will reduce the need to travel to an external location for training classes and meetings.

The following list outlines training topics to be provided for all staff who receive interactive classroom panels. This training will also be made available to all staff in the district and special training sessions for students will also be developed and provided.

- Interactive Classroom Panel Functionality Training
- Snowflake Software to enhance instructional strategies
- SMART Notebook Software lesson plan development
- Microsoft Office 365 & Classroom curricular integration
- Google Drive, Apps & Classroom curricular integration
- Schoology Digital Classroom & Learning Management System development
- Classroom mobile device management & integration
- Document Camera training
- Online Safety Awareness & Resources
- Digital Copyright Awareness & Resources

## Smart Schools Investment Plan - 2-1617

## Classroom Learning Technology

Page Last Modified: 07/27/2017

- Digital Content, Video Lessons & Annotation to enhance digital classroom resources
  - Instructional Technology Coaching for curricular technology integration development
- Other specific training opportunities for teachers, staff, students and parents as determined

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 Buffalo State

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

716-878-4000

- 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.**

Dr. Wendy Paterson

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](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)

## Smart Schools Investment Plan - 2-1617

## Classroom Learning Technology

Page Last Modified: 07/27/2017

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	101,520
Computer Servers	0
Desktop Computers	0
Laptop Computers	46,410
Tablet Computers	0
Other Costs	28,528
<b>Totals:</b>	<b>176,458</b>

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](mailto: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.

**Smart Schools Investment Plan - 2-1617**Classroom Learning Technology

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Page Last Modified: 07/27/2017

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
Interactive Whiteboards	Clear Touch Interactive Classroom Panel	20	5,076	101,520
Laptop Computers	Chromebook	210	221	46,410
Other Costs	Classroom Sound Field System	8	1,600	12,800
Other Costs	Chromebook Secure Mobile Cart	7	1,720	12,040
Other Costs	Lego Mindstorms Education EV3 Kits	8	461	3,688

## Smart Schools Investment Plan - 2-1617

## Pre-Kindergarten Classrooms

Page Last Modified: 07/26/2017

## Group 1

1. Provide information regarding how and where the district is currently serving pre-kindergarten students and justify the need for additional space with enrollment projections over 3 years.

(No Response)

2. Describe the district's plan to construct, enhance or modernize education facilities to accommodate pre-kindergarten programs. Such plans must include:

- Specific descriptions of what the district intends to do to each space;
- An affirmation that pre-kindergarten classrooms will contain a minimum of 900 square feet per classroom;
- The number of classrooms involved;
- The approximate construction costs per classroom; and
- Confirmation that the space is district-owned or has a long-term lease that exceeds the probable useful life of the improvements.

(No Response)

3. Smart Schools Bond Act funds may only be used for capital construction costs. Describe the type and amount of additional funds that will be required to support ineligible ongoing costs (e.g. instruction, supplies) associated with any additional pre-kindergarten classrooms that the district plans to add.

(No Response)

4. All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

5. If you have made an allocation for Pre-Kindergarten Classrooms, 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
Construct Pre-K Classrooms	(No Response)
Enhance/Modernize Educational Facilities	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

6. 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](mailto:smartschools@nysed.gov).  
Add rows under each sub-category for additional items, as needed.



**Smart Schools Investment Plan - 2-1617**Pre-Kindergarten Classrooms

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Page Last Modified: 07/26/2017

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

## Smart Schools Investment Plan - 2-1617

## Replace Transportable Classrooms

Page Last Modified: 04/19/2017

## Group 1

1. Describe the district's plan to construct, enhance or modernize education facilities to provide high-quality instructional space by replacing transportable classrooms.

(No Response)

2. All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

3. For large projects that seek to blend Smart Schools Bond Act dollars with other funds, please note that Smart Schools Bond Act funds can be allocated on a pro rata basis depending on the number of new classrooms built that directly replace transportable classroom units.

If a district seeks to blend Smart Schools Bond Act dollars with other funds describe below what other funds are being used and what portion of the money will be Smart Schools Bond Act funds.

(No Response)

4. If you have made an allocation for Replace Transportable Classrooms, 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
Construct New Instructional Space	(No Response)
Enhance/Modernize Existing Instructional Space	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

5. 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](mailto:smartschools@nysed.gov).  
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
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

## Smart Schools Investment Plan - 2-1617

## High-Tech Security Features

Page Last Modified: 04/19/2017

## Group 1

1. Describe how you intend to use Smart Schools Bond Act funds to install high-tech security features in school buildings and on school campuses.

(No Response)

2. All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

3. Was your project deemed eligible for streamlined Review?

☐ Yes

☐ No

4. Include the name and license number of the architect or engineer of record.

Name	License Number
(No Response)	(No Response)

5. If you have made an allocation for High-Tech Security Features, 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
Capital-Intensive Security Project (Standard Review)	(No Response)
Electronic Security System	(No Response)
Entry Control System	(No Response)
Approved Door Hardening Project	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

6. 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](mailto:smartschools@nysed.gov).

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
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

**Smart Schools Investment Plan - 2-1617**

High-Tech Security Features

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Page Last Modified: 04/19/2017

**Smart Schools Investment Plan - 2-1617**

Report

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Page Last Modified: 04/19/2017

**Smart Schools Investment Plan - 2-1617**

PPU Report

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Page Last Modified: 04/19/2017