

Marcellus Central School District  
Smart Schools Bond Act – April 21, 2016  
Smart Schools Investment Plan: SSIP Overview

1. Please enter the name of the person to contact regarding this submission.
  - a. Anthony Sonnacchio, School Business Administrator
  - b. Phone – (315) 673-6001
  - c. E-mail Address – [asonnacchio@marcellusschools.org](mailto:asonnacchio@marcellusschools.org)
2. Please indicate below whether this is the first submission, a new submission or an amended submission of a Smart Schools Investment Plan.
  - a. This is our first 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

- a. 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
  - a. Please upload the proposed Smart Schools Investment Plan (SSIP) that was posted on the district's website. 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.

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.

- a. 748 students and 145 staff members will benefit from this Smart Schools Investment Plan based on the cumulative projects submitted to date.

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.

N/A

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

N/A

10. Your district's Smart Schools Bond Act Allocation is: **\$1,121,225**
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	\$163,285
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	0
Totals	\$163,285

Marcellus Central School District  
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 Draft Smart Schools Investment Plan: Classroom Technology

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.

- 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 Kpbs	Divide by 1000 to Convert to Mb per 1000 students	Current Speed in Mb per Student	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	1,667	166,700 Kpbs	166.7 Mb/student	150 Mb/student	200 Mb/student	9/1/2016
Totals	1,667	166,700 Kpbs	166.7 Mb/student	150 Mb/student	200 Mb/student	9/1/2016

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.

In order to accommodate the additional devices, we have purchased additional bandwidth for September 1, 2016.

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.

We plan to purchase Acer R 11 C738T-C44Z Touchscreen Chromebooks which integrate seamlessly with our current infrastructure.

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.

Teachers differentiate instruction by selecting appropriate and targeted instructional tools for reaching students with different learning modalities. In addition to current methods, teachers will be able to select from a plethora of Google Apps for Education as well as media-rich, interactive web resources in order to provide the most meaningful assignments for all students. Videos are often used as reinforcement or for pre-teaching. Teachers are able to meet student accommodations and modify assignments when necessary. For example, using adaptive practice websites students can practice at their own level.

Our planned 1:1 Chromebook initiative for 3rd-8th grade will break down the walls of the traditional classroom. All classroom teachers will utilize the power of web-based learning management system, Google Classroom, to distribute assignments and class work, creating a Blended Learning environment. With each student having their own chromebook they can work real-time instead of just watching or listening. Student will have more control over their learning as well as the ability to access classroom resources and continue working on collaborative projects beyond the school day. Students are engaged when using the chromebooks which makes them more motivated to learn.

Students will have access to assistive technology in their classrooms without having to go to alternative sites to access speech to text and text to speech software. ENL students will have ready access to google translate and definitions of vocabulary words as they are reading and learning, rather than accessing these resources later after instruction. Both students will have

access to Google Classroom and notes, and be able to modify the notes to meet their learning needs as the instruction takes place.

The writing process and revision process is a learning gap identified within the district. Use of chromebooks and their grammar and editing features will assist students in identifying weakness in writing and provide a model for students to use to improve writing. We have identified students at the upper grades who are reading below grade level, and google read and write will allow all students access to this tool to increase reading comprehension and understanding of the material presented.

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?")

7. Where appropriate, briefly 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 enhance ongoing communication with parents and other stakeholders and help the district facilitate technology-based regional partnerships, including distance learning and other efforts via Google Classroom, web cams, e-mail, and pre-planned distance learning activities offered through the school library and OCM BOCES.

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.

Teachers will follow our successful Blended Learning Pilot implementation plan. They attend a full day of Blended Learning professional development, specifically targeting the use of Google Classroom and 1:1 devices, in the summer of 2016 and be expected to attend monthly follow-up and support meetings during the school year. A member of the Central New York Regional Information Center's Instructional Technology and Design team is on site 2 days each week to provide instructional technology training sessions as well as coaching/modeling for teachers. Teacher Technology Mentors are in place to provide monthly follow-up meetings as well as day-to-day support for their peers.

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."

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.

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

10a. Describe your plan to loan purchased hardware to nonpublic schools within your district. The plan should use your district's nonpublic per-student loan amount calculated below, within the framework of the guidance.

10b. A final Smart Schools Investment Plan cannot be approved until school authorities have adopted regulations specifying the date by which requests from nonpublic schools for the purchase and loan of Smart Schools Bond Act classroom technology must be received by the district.

By checking this box, you certify that you have such a plan and associated regulations in place that have been made public.

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).

	Classroom Technology Sub-allocation	Public Enrollment (2014-15)	Nonpublic Enrollment (2014-15)	Sum of Public and Nonpublic Enrollment	Total Per Pupil Sub-allocation	Total Nonpublic Loan Amount
Calculated Nonpublic Loan Amount						

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	
Computer Servers	
Desktop Computers	
Laptop Computers	\$163,574
Tablet Computers	
Other Costs	
Totals	

15. To the extent possible, please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.

	Item to Be Purchased	Quantity	Cost per Item	Total Cost
Interactive Whiteboards				
Computer Servers				
Desktop Computers				
Laptop Computers	Acer R 11 C738T-C44Z Touchscreen Chromebooks	566	\$289.00	\$163,574.00
Tablet Computers				
Other Costs				
Totals				\$163,574.00