


MARCELLUS CENTRAL SCHOOL DISTRICT
Marcellus, NY 13108

TO: Michelle Brantner
FROM: Tony Sonnacchio
RE: Smart Schools Investment Plan
DATE: February 3, 2021

New York State voters approved the Smart Schools Bond Act in 2014, authorizing issuance of up to \$2 billion in bonds to finance acquisition of educational technology and infrastructure to improve learning and opportunity for students throughout New York State.

Information specific to Marcellus is as follows:

Allocation	\$1,121,225
Spent to Date (Chromebooks, 2016)	<u>163,565</u>
Remaining Allocation	\$ 957,660

Funds are accessible through development of a Smart Schools Investment Plan. Notable elements of the SSIP process include:

- Stakeholder input (parents, teachers, students, community members). Stakeholder input occurred on December 18th via an extension of the district's facilities committee. Names are noted in the attached slide deck.
- Consultation with a SUNY teacher preparation program to request advice on innovative uses and best practices at the intersection of pedagogy and educational technology. We reached out to Pamela Michel, Dean, SUNY Oswego School of Education. Her confirmation of review and approval of our plan is attached.
- Development and BOE approval of a preliminary Smart Schools Investment Plan. This occurred at our January 4, 2021 Board of Education meeting.
- 30 day public comment period for stakeholder input regarding the preliminary SSIP. The preliminary SSIP was placed on the district's web site on January 5, 2021. The link is as follows: <http://www.marcellusschools.org/teacherpage.cfm?teacher=3322>
- Public hearing to enable stakeholders to respond to the preliminary SSIP. The public hearing will take place prior to the start of the Feb 8th regular Board of Education meeting.
- BOE approval of the final SSIP.
- Post final plan on district's website for the life of the Plan
- Submit final plan to the NYSED SSIP Review Board (approval expected to take six to twelve months)
- The entire SSIP process can take up to 12 months to complete.

Due to the amount of time involved in completing the SSIP process it is appropriate that we submit a multiyear plan to spend down our SSIP allocation. The attached slide deck provides a summary of planned purchases from 2021 through 2027 and the source of funds for each. SSIP purchases are highlighted in yellow.

We will present the attached slides during the public hearing on February 8th.

If you have any questions please let me know. Thank you.



SCHOOL OF EDUCATION
OFFICE OF THE DEAN

January 7, 2021

Mr. Anthony Sonnacchio
School Business Administrator/District Clerk
Marcellus Central School District
2 Reed Parkway
Marcellus, NY 13108

Dear Mr. Sonnacchio:

It was a pleasure speaking with you on Tuesday, January 5, 2021, about the Marcellus Central School District Technology Plan relative to the Smart Schools Bond Act. Please be advised that I have reviewed and approved your plan. Your faculty will be invited to participate in professional development opportunities on the SUNY Oswego campus as they become available.

Sincerely,

A handwritten signature in cursive script that reads "Pamela Michel". The signature is written in black ink and includes a small flourish at the end.

Pamela Michel, Dean
School of Education

Marcellus Central School District Smart Schools Bond Act
February 8, 2021

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
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 a new 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

5. Does your district contain non-public schools?

Yes

Yes, but they have since closed or moved out of district

No

- a. Please detail which nonpublic schools have closed or moved since 2014-15, including enrollments and physical locations.

6. 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.
- b. 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.marcellusschools.org>

7. 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. **1,450 students and 200 staff members will benefit from this Smart Schools Investment Plan based on the cumulative projects submitted to date.**

8. 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.

9. Please enter the name and 6-digit SEO Code for each LEA/School District participating in the Consortium.

N/A

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

N/A

11. Your district's Smart Schools Bond Act Allocation is: **\$1,121,225**

12. Final 2014-2015 BEDS Enrollment to calculate Nonpublic Sharing Requirement

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	1,839	0	1,839	0.0%

13. 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	\$957,660
Pre-Kindergarten Classrooms	0
Replace Transport able Classrooms	0
High-Tech Security Features	0
Totals	\$957,660

Marcellus Central School District
 Smart Schools Bond Act – February 8, 2021
 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:

- a. Specifically codified in a service contract with a provider, and
- b. 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). If the district currently meets the required speed, enter "Currently Met" in the last box: Expected Date When Required Speed Will be Met.

	Number of Students	Multiply by 100 Kbps	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	1,450	145,000 Kbps	145 Mb/student	150 Mb/student	150 Mb/student	Currently Met
Totals	1,450	145,000 Kbps	145 Mb/student	150 Mb/student	150 Mb/student	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.

The district installed a robust Wi-Fi network in 2015. Current bandwidth is sufficient to meet user demand as evidenced by successful operation of a 1:1 Chromebook deployment (operational since 2016). The district recognizes the need to upgrade its WiFi network and has scheduled replacement of 250 wireless access points in 2023-2024 using general fund appropriations.

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 2,412 Chromebooks (or equivalent portable device) and 18 interactive whiteboards/displays. Chromebooks and interactive displays are part of a six year district-wide instructional technology replacement plan.

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.

All classroom teachers will utilize the power of web-based learning management systems and Google Classroom to distribute assignments and class work, creating a Blended Learning environment. Interactive whiteboards/displays will be used to display/interact with instructional content throughout the school day. Screen capture/recording software will be used to record lessons and provide opportunities for students to gain access to classroom presentations at home or any location with internet access.

Planned technology specified in this Smart Schools Investment Plan will provide the basic instructional technology components for classrooms and support instructional technology tools already owned and in use, such as Chromebooks and iPads. Students with disabilities will continue to have access to assistive learning devices and applications such as Read to Go, Read/Write for Google, Kurzweil, and Boardmaker. Students who struggle to succeed in a rigorous curriculum will benefit greatly from use the equipment specified in this SSIP as devices will be used to create and deliver dynamic, interactive, and motivational teaching and learning materials.

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?")

In addition, describe how the district ensures equitable access to instruction, materials and assessments and participation in the general curriculum for both SWD and English Language Learners/Multilingual Learners (ELL/MLL) students.

The district ensures equitable access to instruction, materials and assessments and participation in the general curriculum for both SWD and English Language/Multilingual Learners by providing the same or similar access to devices such as Chromebooks, interactive displays, wireless internet/network access and web-based applications. Applications may be different for some students, as those applications are chosen based on their programmatic/instructional needs. It is important to note that all elements of our instructional technology program are accessible to all students regardless of their learning needs.

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 enhance ongoing communication with parents and other stakeholders and help facilitate technology-based regional partnerships through use of 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.

A member of the Central New York Regional Information Center's Instructional Technology and Design team is on site three 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. Lastly, the district employs a full time Technology Integration Specialist to provide coaching/modeling for teachers.

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.

- a. Please enter the name of the SUNY or CUNY Institution that you contacted.
SUNY Oswego
- b. Enter the primary Institution phone number.
(315) 312-5407
- c. 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. Pamela Michel, Dean of Education

10. 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.

11. 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.

12. 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	Interactive display, mount and projector	42	2,700	113,400
Computer Servers				
Desktop Computers				
Laptop Computers	Chromebooks	2,412	350	844,200
Tablet Computers				
Wireless Access Points				
Totals				957,600

13. Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement (no changes allowed.)

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	1,839	0	1,839	0.0%

14. If you are submitting an allocation for Classroom Learning Technology complete this table.

	Public School Sub-Allocation	Estimated Nonpublic Loan Amount (Based on Percentage Above)	Estimated Total Public and Nonpublic Sub-Allocation
Interactive Whiteboards	113,400	0	113,400
Computer Servers			
Desktop Computers			
Laptop Computers	844,200	0	844,200
Tablet Computers			
Other Costs			
Totals:	957,600	0	957,600



Smart Schools Bond Act Classroom Technology

Public Hearing
February 8, 2021 Board of Education Meeting



District Planning Team Members

<u>Name</u>	<u>Role</u>
Michelle Brantner	Superintendent
Connor Ciota	Student
Hannah Durand	Student
Lorelei Riefler	Student
Kevin Shea	Student
Anthony Sonnacchio	School Business Administrator
Elena Drescher	Director of Technology
Ryan Riefler	Director of Facilities
Mike Free	Assistant Principal
Maureen Manciocchi	Teacher
Katie Bazydlo	Teacher
Brian Ciota	Community member
Joe Durand	Community Member
Michael McAuliff	BOE President/Community Member
Christine Shea	BOE Member/Community Member
Elena Drescher	MCSD IT Staff

Smart Schools Bond Act: Background Information

- ❖ Approved by New York State voters in November 2014
- ❖ Authorized issuance of up to \$2 billion in bonds for improved educational technology and infrastructure
- ❖ Marcellus allocation is \$1,121,225
 - \$163,565 used for purchase of Chromebooks in 2016
 - \$957,660 unspent
- ❖ Permissible use of funds relate to:
 - School connectivity
 - Community connectivity (library, municipal buildings, etc.)
 - Classroom learning technology
 - Pre-Kindergarten classrooms
 - Replace transportable classrooms
 - High-tech security features
- ❖ Funds are one-time – they do not recur
 - Must ensure long-term sustainability



Smart Schools Bond Act: Timeline

- ❖ December 22, 2020: Facilities/SSIP Committee Meeting
- ❖ January 4, 2021: Board of Education approves preliminary Smart Schools Investment Plan (SSIP)
- ❖ January 5, 2021: Preliminary plan available on the district's website for public comment
- ❖ February 8, 2021: Public hearing to enable stakeholders to respond to the preliminary plan
- ❖ February 8, 2021: Board of Education approves final SSIP
- ❖ February 9, 2021: Final SSIP available on the district's website
- ❖ February 9, 2021: SSIP submitted to the State Education Department
- ❖ August 2021: SSIP approved by the State Education Department



Smart Schools Bond Act: Approach

The timeline for approval of a Smart Schools Investment Plan is lengthy.


Our Director of Technology maintains a multi-year replacement schedule.

Do we seek approval for multiple smaller projects on an annual basis?

Or can we seek approval for one project with purchases scheduled to occur over multiple years?

Smart Schools Bond Act: Needs

SmartSchools Bond Act											
Planning Document											
Device	Quantity Owned	Life Expectancy (Years)	Replace Annually	Cost Per	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	Totals
Interactive Boards - SSIP	47	7	7	\$2,700	18,900	18,900	18,900	18,900	18,900	18,900	113,400
Interactive Boards - General Fund	18	7	3	\$2,700	8,100	8,100	8,100	8,100	8,100	8,100	
Chromebooks - SSIP	1,500	4	402	\$350	140,700	140,700	140,700	140,700	140,700	140,700	844,200
Chromebooks - General Fund	600	4	123	\$350	43,050	43,050	43,050	43,050	43,050	43,050	
iPads	350	4	88	\$300	26,400	26,400	26,400	26,400	26,400	26,400	
Desktops	450	4	113	\$800	90,400	90,400	90,400	90,400	90,400	90,400	
Document Cameras	63	6	11	\$125	1,375	1,375	1,375	1,375	1,375	1,375	
Access Points	250	8	250	\$486	0	0	121,560	0	0	0	
Telephones	300	10	30	\$450	0	0	0	0	0	135,000	
Total Estimated Expenditures					328,925	328,925	450,485	328,925	328,925	463,925	957,600
Funding Source					2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	Totals
Smart Schools/SSIP					159,600	159,600	159,600	159,600	159,600	159,600	957,600
BOCES					140,400	140,400	261,960	140,400	140,400	275,400	
General Fund					28,925	28,925	28,925	28,925	28,925	28,925	
Total Estimated Revenues					328,925	328,925	450,485	328,925	328,925	463,925	957,600



Smart Schools Bond Act: Interactive Displays, Chromebooks, Wireless Access Benefits

Instructional uses:

- Student-Student **Collaboration** and Student-Teacher Collaboration
- **Blended Learning** environment - **Engaging**
- Google apps/**Interactive, media-rich** web resources
- Teachers are able to **differentiate** their instruction more easily
- Kids can **write and rewrite** much easier/teacher **feedback** is seamless
- **Targeted** instructional tools/**Adaptive** practice tools
- Videos for **reinforcement** or **reteaching**
- Google Classroom keeps students and teachers very **organized**
- Keyboarding/**Computer-based testing preparation**
- Use of digital calendar for **organization and collaboration**
- **Creating/curating** digital artifacts or individual work - ie WeVideo
- **Demonstration of understanding** with digital mediums
- Digital portfolios



Smart Schools Bond Act: Classroom Technology

Questions?

