Smart Schools Investment Plan

October 2015

1. Contact Information: Please forward any questions, comments or concerns regarding this plan to :

Lynn M. Roy, Superintendent of Schools

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lroy@mwcsk12.org

1. First Submission
2. District Educational Technology Plan Submitted to SED and Approved 9/28/15
3. The MWCS District has consulted with or provided opportunities for consultation with all the following groups: parents, teachers, students, community members.
4. Certification of Process

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 includes an address to which any written comments on the plan should be sent. The School Board will conduct a hearing that will enable stake holder to respond to the preliminary plan. This hearing will take place as part of a normal Board meeting. Adequate notice of the event will be provided through local media and the District website for a least two weeks prior to the meeting. The District will prepare a final plan for School Board approval. It is anticipated that such plan will be approved by the School Board. Once the final proposed plan has been submitted it will be posted on the District’s website.

1. 692 students, 70 instructional staff, 8 clerical
2. At this time, MWCS will not partner with BOCES or any other school districts to form a consortium to pool Smart Schools Bond Act funds.
3. Not Applicable
4. Not Applicable
5. Total Allocation of Smart Schools Bond Act funds: $829, 943
6. Proposed Preliminary Budget Submissions:

School Connectivity: $ 0

Connectivity Projects for Communities $0

Classroom Technology $ 360,000

Pre-Kindergarten Classrooms $0

Replace Transportable Classrooms $0

High-Tech Security Features $ 0

**School Connectivity**

1. With the completion of the SED approved 2015 Capital Project, a new wireless controller, Gigabit switches, and stronger wireless Access Points, all rooms will have full wireless access for all students in the classroom.
2. The Madrid-Waddington District plans to continue to support enhanced educational opportunities through blended learning environments such as flipped classrooms, distance learning labs, and fully online courses.  Teachers will have full access to a multitude of peripherals such as digital cameras, interactive panels, and document readers.  Teachers will have access to numerous instructional software packages.  The district is additionally committed to expanding our broadband infrastructure to support “Bring Your Own Device”(byod) instruction.
3. The total contracted Internet access bandwidth for the district is currently 40

 Mb. This refers to the speed configured to get from the district hub out to the

 Internet. The District currently has wireless access points in use. The District

 has 90% coverage currently. It is anticipated that the District will have 100%

 total coverage by December, 2016, following the SED approved Capital

 Project Improvements. Additionally, the District uses a wireless controller.

 The port speed of the switches that are less than five years old in use in the

 district is 5 GB.

1. Given the information above, MWCS is confident that it will have a robust Wi-Fi network in place that has sufficient bandwidth to meet user (staff and students) demand. An approximation of 700 District students, in addition to 150 staff members, with 2 devices each for a total of 1700 concurrent devices was used to quantify this demand. Additionally, a secure guest wifi network supporting 1536 concurrently connected devices has been configured. This network will be available from 3:30 PM through 7:00 AM, M-F; all day Saturday and Sunday. The 2015 capital project to be complete by December 2016 will address the specifications above.
2. The Office of Facilities Planning completed a review and granted approval of the capital project in July 2015.
3. Our project is not deemed eligible for streamlined review. High-Tech Security is Not Applicable
4. Engineer and Architect names are Not Applicable at this time.
5. MWCS is not submitting an allocation for School Connectivity.

**Community Connectivity**

Madrid-Waddington Central School is not submitting for investment in this category at this time.

**Classroom Learning Technology (Equipment or Devices)**

1. MWCS has contracted with NERIC (Capital Region BOCES) to supply the minimum speed standard for all the instructional buildings. This contract began July1 2015. The contract allowed for an increase from 40 MB to 70 MB. The contracted will continue to increase proportionally with system capacity.
2. As stated in #1, the District believes it has already met the required standard.

3. The District plans to purchase 75” interactive panels to drive classroom instruction. They will replace current interactive whiteboards, eliminating projectors. Teacher computer stations will remain updated and compatible with both the interactive panels and other District devices. The district will continue to purchase mobile devices for use in the classroom, increasing the inventory so that each student will have access to a device at all times during the school day. Both the interactive panels and student devices will be purchased so that compatibility between devices and platforms will be optimal.

4. The proposed technology will increase all student engagement and:

* 1. enhance differentiated instruction by providing multiple modalities of instruction. The interactive panels allow for student manipulation, work in small groups or stations (with 10 points of touch, 5 students could work simultaneously at the board), or general whole-group instruction. The personal devices will foster flipped learning, as well as self-paced learning via interactive programs, individualized learning, and real-time formative assessments for students.
	2. expand student learning inside and outside of the classroom by providing. “Flipped” and Blended instructional strategies, collaborative spaces, virtual fieldtrips and constant access.
	3. benefit students with disabilities by enhancing student engagement in their learning. Increased student access to an interactive panel as a mounted board, or a collaborative table setting. Availability of personal devices for each student will allow access to the physical, behavioral, or educational programs and applications required to meet individual needs.
	4. contribute to the reduction of learning gaps that have been identified within the district by providing platforms and tools by which students can close gaps. The interactive panels provide flexibility for modification of content. All teachers will have access to software that focuses on individual needs such as Reading A-Z, Read Naturally, Kurzweil, Nearpod, Reading Eggs, Mathseeds, Learning Ally, Accelerated Reader,, Flocabulary, Keyboarding Without Tears, ActivInspire, etc. Students have access to iPads, Chromebooks, Kindles, and desktop computer stations. Software applications are available in audio playback for these devices. Physical accommodations, such as styluses, handles, alternate keyboards, etc. are available to students.

5. The proposed technology purchases through the Smart Schools Investment Fund will greatly increase the capacity and facilitate utilization of blended learning and differentiation through flipped classrooms, shared classrooms, distance learning, teleconferencing as well as on line classrooms, instruction for home bound students,

6. Substitute Teachers will be provided for release time for staff before, during and after the school day so that staff may investigate, practice and learn new technologies and their applications. An Instructional Support specialist, NERIC IT Specialists, and 1.6 FTE Teaching Assistants are available to assist in classroom with implementation and effective use of technology in instruction. “Real time” Embedded PD as well as Model Schools, and St. Lawrence-Lewis BOCES workshops will be accessed to learn new technologies. Elementary, Middle School and High School teachers and administrators will utilize NYSCATE attendance to develop turnkey training upon return to District. Staff developed In house trainings are provided as new technologies are introduced.

As per current Professional Development Plan,

The District ensures that all teaching staff will have the means to develop the skills and knowledge necessary to meet diverse student population needs. These populations may include, but are not limited to, students with disabilities, English Language Learners, and students from poverty.  Access to the online administrative programs, IEP Direct/RTI Direct and School Tool, keeps instructional staff up to date with necessary information about students with an Individual Education Plan, AIS Interventions, or Gifted/Talented program. Differentiated instructional techniques and strategies are required training for all new staff.  Staff will be informed and become familiar with all special needs classifications. “

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| Topics of  Professional Development training offered to all instructional staff within the District include: Google Apps such as GMail, Docs, Classroom, Slides, Sheets, YouTube, Sites, forms, extensions, add-ons, etc (8 days of training between 7/14 and 08/27). Trainings on programs such as eDoctrina (08/14), Schooltool (10/14, 08/15), IEP/RTI Direct (07/14, 08/15), Flipped Classrooms (07/14), ActivInspire (monthly), and other district-purchased programs. These trainings occur on Staff Development Days, summer training sessions, as well as before, during, and after school. Our staff members also attend Model Schools workshops, and other regionally offered trainings (through NYSCATE, Google, ISTE, etc.). All workshops are tracked via MyLearningPlan. Madrid-Waddington hosted a Google Camp on August 12, 2015 that included participants from over 15 school districts in the North Country. |

7. MWCS has contacted the SUNY Potsdam teacher preparation program to request advice on these issues. (See attached)

1. There are no Non-Public Schools within the MWCS district boundaries
2. The District has a sustainability plan 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, etc. The District has a long-term plan for the replacement of purchased devices and equipment at the end of their useful life with other funding sources. This long term plan is reflected in the 5 year Building Condition Survey as well as in the District’s Technology Plan.
3. The MWCS District has a distribution and inventory management plan and system in place. The District will ensure that devices purchased with Smart Schools funds will be distributed, prepared for use, maintained and supported. The District will maintain detailed device inventories in accordance with generally accepted accounting principles.

Classroom Technology Purchases/Budget

Interactive whiteboards $360,000

Computer Servers $0

Desktop computers $0

Laptop computers $0

Tablet computers $0

Other Costs $0

Subtotal $360,000

**Pre-Kindergarten Classrooms**

Madrid-Waddington Central School is not submitting for investment in this category at this time.

**Replace/Modernize Transportable Classrooms**

Madrid-Waddington Central School is not submitting for investment in this category at this time.

**High Tech Security Features**

Madrid-Waddington Central School is not submitting for investment in this category at this time.

**Smart Schools Bond Act Investment Plan**

**Statement of Assurances**

As Chief School Officer, I am assuring that the district will operate according to the requirements under the Smart Schools Bond Act, as detailed in the guidance documents located on the NYSED Smart Schools Bond Act website at<http://www.p12.nysed.gov/mgtserv/smart_schools/>

Specifically, I assure that the District will:

* Make and submit for reimbursement, expenditures consistent with the approved Smart Schools Investment Plan.
* Comply with all Education Law requirements and Commissioner Regulations under Title 8, Chapter II, Subchapter J, Part 155 for capital projects at educational facilities. See:<http://www.p12.nysed.gov/facplan/Laws_Regs/8NYCRR155.htm>
* Comply with all Education Law requirements and Commissioner Regulations, under Sections 3602-e and 3602-ee of Education law and Subpart 151-1 of the Commissioners Regulations for new Prekindergarten classrooms.
* Use such fiscal control and fund accounting procedures as will ensure proper disbursement of, and accounting for, funds under the Smart Schools Bond Act;
* Make reports to the State Education Department as may be necessary to enable the Department to perform its duties under the program.

The District will maintain on file and provide to the State Education Department as requested:

* A detailed accounting of expenditures, including other sources of funding used to support the District’s Smart Schools Investment Plan; and
* Documentation to support any variances requested by the district, if applicable; and
* A copy of the Smart Schools Investment Plan approved by the Board of Education.