



179 East Lake Boulevard, Mahopac NY 10541

SMART SCHOOLS INVESTMENT PLAN Second Submission

PLAN OVERVIEW:

In January 2014, Governor Andrew M. Cuomo called for New York State to invest \$2 billion in its schools through a Smart Schools Bond Act (SSBA). Voters approved the Smart School Bond Act in November 2014 and as a result the Mahopac Central School District (MCSD) was allocated to receive \$3,181,109. In alignment with the Mahopac CSD Technology Plan for 2015-2108, this Investment Plan is designed to:

- Upgrade/Expand wireless infrastructure
- Upgrade/Expand network infrastructure
- Expansion of security cameras
- Installation of electronic access doors
- Expansion of end users instructional devices throughout district

Working in collaboration with District leadership, school building administrators, teachers and input from parents our technology plan survey provided the overarching goals for technology in instruction for the Mahopac Central School District. The investment in Instructional Technology is in alignment with the goals expressed in our NYSED approved Technology Plan Survey.

JUSTIFICATION OF NEED:

Our technology plan identifies gaps in infrastructure that need to be addressed in order for the expansion of instructional technology to occur. Some of the IT infrastructure is approaching end-of-life and will need to be upgraded to be able to accommodate the rapid growth of instructional technology needs in the classroom. In conjunction with the infrastructure upgrade the end-user devices will enhance and expand the offering of instructional technology based on the needs of the students for classroom instruction districtwide.

PRECONDITIONS:

As per NYSED Smart Schools Bond Guidance a pre-condition to utilize the incoming funding is that the district has adequate internet access of at least 100 Mbps per 1,000 students to supply for the increased number of devices in the classrooms. Mahopac Central School District meets and exceeds this requirement.

This Smart Schools Investment Plan is in direct alignment with our NYSED approved Technology Plan Survey 2015-2018 Vision and Goals for Technology for Instruction.

PURCHASE PLAN:

A second submission of the SSIP will be related to investing in Wireless Infrastructure and Classroom Technology.

The District plans to purchase approximately 145 Aruba Wireless Access Points, supporting Cisco Switches and peripherals in order to replace/upgrade the Wireless Network in the High School Building. In addition the District plans to increase throughput between the infrastructure closets throughout the District, from 1GB to 10GB port capabilities to support the projected increase of network traffic and end-user devices. The District will replace and extend the network capabilities to areas throughout the District that need this connectivity in order to maximize use of instructional space.

In addition the District plans to purchase an additional 540 Acer C738T Chromebooks (or a comparable device after approval by NYSED and the Smart Schools Review Board). The C738T ACER Chromebook has a new aluminum cover, but also new beefy hinges to support the full screen swivel. The display is a 1366x768 LCD 10-point touch screen, and it's powered by a Chromebook-standard Intel processor (N3150), with 4GB of RAM and 16GB of storage. There's also an HDR-capable webcam, 802.11ac Wifi and USB 3.0 ports on board. The District will also purchase 18 charging carts for the Chromebooks to be securely stored and charged while school is not in session.



PLAN GOALS:

In order to ensure that the IT Infrastructure can adequately handle the instructional use of the network resources, the District is planning on upgrading the Wireless System in the High School as well as the supporting Infrastructure. The District is upgrading the connections between the infrastructure closets in order to achieve a maximum throughput of 10GB between core closets. The District will extend the network capabilities to areas throughout the District that need this connectivity.

The purchase of these additional 540 new Chromebooks and 18 carts will significantly increase student access to technology, online access, and collaborative student-centered learning opportunities. By embedding technology into the delivery of instruction the District can continue to provide equitable access to technology tools to prepare all learners to be college and career ready. The District continues to develop and integrate K-12 students' technical competencies and learning strategies that seamlessly integrate ISTE Technology Strategies, National Common Core Standards for K-12 and College and Career Readiness.

This year the State Education Department has asked districts to volunteer to participate in mandated field testing of the math and ELA state tests on-line beginning with the 2016-2017 school year. Consequently, the District needs to work toward becoming compliant with incoming computer based testing (CBT). The District's overall expenditure plan will help us to meet this mandate.

ALLOCATION OF FUNDS:**SSBA Allocation: \$3,181,109 by Budget Category****TABLE 1: SSBA Allowable Expenditures**

SSBA BUDGET CATEGORY	ALLOCATIONS
School Connectivity	\$486,523
Connectivity Projects for Communities	\$0
Classroom Technology	\$186,538
Pre-Kindergarten Classroom	\$0
Replace Transportable Classroom	\$0
High-Tech Security Features	\$0
Total Second Submission	\$673,061
First Submission	\$186,538
Unallocated Funds	\$2,321,510
TOTAL ALLOCATION	\$3,181,109

Table 2. School Connectivity:

SCHOOL CONNECTIVITY	ALLOCATIONS
Network/Access Costs	\$154,500
Outside Plant Costs	\$0
School Internal Connections and Components	\$332,023
Professional Services	\$0
Testing	\$0
Other Upfront Costs	\$0
Other Costs	\$0
Totals:	\$486,523

Table 3. Classroom Technology Budget Allocation:

Classroom Technology - Category	ALLOCATIONS
Interactive Whiteboards	\$0
Computer Servers	\$0
Desktop Computers	\$0
Chromebooks	\$160,888
Tablet Computers	\$0
Other Costs	\$ 25,650
Totals:	\$186,538

PROFESSIONAL DEVELOPMENT:

The District recognizes the importance of ongoing and sustained professional development for staff and students and subscribes to the LHRIC (Lower Hudson Regional Information Center) Model Schools/Emerging Technologies Services have been engaged and contracted with our Local BOCES/LHRIC. This contract provides for two professional development specialists to work with teachers in our school for several days a week for the entire school year. These specialists will work collaboratively with teachers in and out of the classroom, employing new pedagogy and strategies such as the SAMR Model (Substitute Augment, Modify and Redesign) a technology in education framework to help teachers integrate technology into the curriculum. These efforts will ensure all our teachers, school administrators and staff will be empowered to best utilize these new technologies for instructional purposes.

SUSTAINABILITY:

The District will integrate the Smart Schools Bond purchases into the existing district's equipment replacement cycle. Each year the district allocates funds for the normal repair cost of a percentage of the total learning devices in the district. In addition, we have contracted with our BOCES/LHRIC for ongoing technical support for our IT Infrastructure and devices. The district and the BOE make every effort to provide sustainability of the investment in technology for instruction including IPAs with NYSED which provides financing for instructional technology equipment and infrastructure through a multiple year purchase agreement.

TIMELINE:

The district will take the opportunity to make multiple submissions to the State Education Department SSBA Program for our SSBA Allocation and Projects. Once the **Investment Plan** is approved by the State, equipment will be purchased in accordance with the District's purchasing policy. The district will include this new equipment in its existing inventory database and monitor it to ensure equipment is securely maintained and supported at its designated locations.

This document has been posted to the District's website as required by the Smart School Bond Implementation Guidance by the New York State Education Department in order to invite public input prior to the adoption of this plan by the Mahopac Central School District Board of Education. Public input can be submitted to the following e-mail address:

smartbondfeedback@mahopac.k12.ny.us