Haldane Central School District
15 Craigside Drive
Cold Spring, NY 10151

HALDANE CENTRAL SCHOOL DISTRICT
NY STATE SMART SCHOOLS BOND ACT
FINAL INVESTMENT PLAN
2015-2018

PUBLIC HEARING ON SMART SCHOOLS BOND FUNDING

There was a Public Hearing on Smart Schools Bond Act Funding at the Board of Education
Meeting on June 7th, 2016
at 7:00 PM in the Music Room

To learn more about SSBA Guidelines go to:

Table of Contents

Plan Overview

Preconditions

Plan Goals

Purchase Plan & Allocations

Professional Development

Sustainability

Investment Plan Timeline
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 Haldane Central School District will receive $248,055 for instructional technology investments aligned with the HCSD Technology Plan, adopted by the district and approved by the NYSED. The Smart schools Bond Act provides funding for the following allowable expenditures:

- School Connectivity
- Classroom Learning Technology

The HCSD Technology Committee, which consists of district administrators, teachers, parents, community members collectively agreed to be prioritize our SSBA investment in the following areas.

- Modernize and expand the HCSD network infrastructure
- Upgrade and extend the HCSD wireless network capacity
- Provide technology devices and equipment to support Manitou our local private school whom we met with in order to determine their need

PRECONDITIONS

As a precondition to utilizing the SSBA funds, the District has ensured that there will be adequate Internet bandwidth to further expand wireless connectivity for classrooms and other locations. The current Internet bandwidth is 50 Mbps. The bandwidth will be increased by July 1, 2016 to 150Mbps. This exceeds the required 100Mbps per 1,000 students.

Haldane CSD has managed fiber from BOCES to our campus on a private network which provides up to 1 Gigabit of interconnectivity.

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 (NYSED). The Haldane CSD submitted its required Instructional Technology Plan survey to NYSED in October 2015 and the plan was approved in November 2015.
PLAN GOALS

The Haldane CSD Smart Schools Bond Act funding goals align with the District’s 2015-2018 Technology Plan that includes:

- Extending student and teacher access to technology, with an emphasis on “anytime/anywhere/any device.”

- Providing equitable access to technology tools to prepare all learners to be college and career ready.

- Continuing to provide technical support, infrastructure upgrades, and network maintenance to support all users of the network.

- Continuing to develop and integrate K-12 student technology competencies and learning strategies, developing strategies to seamlessly integrate ISTE Technology Strategies, National Common Core Standards for K-12 and PARCC College and Career Readiness.

- Maximizing college and career readiness skills through multimedia tools and online learning environments.

- Systemically support on-going technology and assistive technology professional learning opportunities for teachers, staff, and administrators to support teaching and learning.

- Continuing to implement ISTE Administrator and Teacher Technology Standards (NETS) practices to ensure that curriculum, instructional strategies, and the learning environments build capacity to successfully utilize a variety of existing and emerging digital learning tools and technologies.

Specifically, the District’s Smart Schools Bond Act funding allocations will focus on:

- Upgrade and replace Haldane CSD infrastructure to improve connectivity and speed throughout the district.
- Expand Wi-Fi infrastructure to provide ubiquitous wireless access districtwide
PURCHASE PLAN & ALLOCATION OF FUNDS

The Haldane CSD supports a technology network of approximately 1000 users. In alignment with the approved Haldane CSD 2015-2018 District Technology Plan, we plan to utilize SSBA funds as described below:

TABLE 1: SSBA Expenditure Summary of $248,055 by Budget Category

<table>
<thead>
<tr>
<th>SSBA Budget Category</th>
<th>Allocations</th>
</tr>
</thead>
<tbody>
<tr>
<td>School Connectivity</td>
<td>$218,055</td>
</tr>
<tr>
<td>Classroom Learning Technology</td>
<td>$20,000</td>
</tr>
<tr>
<td>Manitou Private School Technology Loan</td>
<td>$10,000</td>
</tr>
<tr>
<td>Total allocated</td>
<td>$248,055</td>
</tr>
<tr>
<td>BOND TOTAL</td>
<td>$248,055</td>
</tr>
</tbody>
</table>

The investment in School Connectivity will be concentrated on the following Sub-Allocations:

<table>
<thead>
<tr>
<th>SCHOOL CONNECTIVITY</th>
<th>SUB-ALLOCATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>School Internal Connections and Components, including wireless access points</td>
<td>$41,840</td>
</tr>
<tr>
<td>Servers/wiring/racks/etc..</td>
<td>$41,840</td>
</tr>
<tr>
<td>Server Storage HP MSA (20TB unit)</td>
<td>$27,000</td>
</tr>
<tr>
<td>Meru Access Points (44)</td>
<td>46,215</td>
</tr>
<tr>
<td>Cisco Switches (8)</td>
<td>65,000</td>
</tr>
<tr>
<td>UPS (8)</td>
<td>$13,000</td>
</tr>
<tr>
<td>Professional Services - Configuration and engineering/Installation</td>
<td>$25,000</td>
</tr>
<tr>
<td>Other Upfront Costs - Firewall/filter</td>
<td>$0</td>
</tr>
<tr>
<td>Totals (School Connectivity)</td>
<td>$218,055</td>
</tr>
</tbody>
</table>
Modernize and Upgrade the Haldane CSD Network Infrastructure/Access Points
Upgrade network Infrastructure in all school buildings, and upgrade the wireless capacity to handle a 1:1 technology implementation. Our wired network switching and connectivity between schools will be 10gbps. Our Meru wireless network will be evaluated so we can implement necessary changes to support the intended number of concurrent connections in each classroom and common area.

Expand Haldane CSD School Internal Connections and Components
Currently Haldane has a Wireless Meru Network in all buildings and Wireless Meru Access Points in about half the classrooms and gymnasiums. We need approximately 50 more access points in order to support 1:1 devices in the classrooms and library.

Non Public Schools Participation
According to Smart Schools Bond Act Guidelines located at: http://www.p12.nysed.gov/mgtserv.smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf

Haldane CSD must provide proportional funding allocation for Classroom Learning Technology for the Non Public School students in the form of a loaning technology program. The allocation is calculated proportionally after taking the total funding allocation for SSBA Category: Classroom Learning Technology divided between the BEDS student enrollment count for the Non Public Schools plus Haldane CSD the result is the per pupil SSBA Allocation and then it is multiplied by the enrollment in the Non Public Schools (K-12 Only) to provide with the maximum allocation in technology that can be shared with the Non-Public schools located in Haldane. Manitou is the Non Public School that will benefit from this loaning program.

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<table>
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<tr>
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<tbody>
<tr>
<td>Haldane CSD Students</td>
<td>863</td>
</tr>
<tr>
<td>Haldane CSD Staff</td>
<td>150</td>
</tr>
<tr>
<td>Manitou K-4 Students</td>
<td>40</td>
</tr>
<tr>
<td>Manitou K-4 Staff</td>
<td>10</td>
</tr>
<tr>
<td>Total K-12 Student</td>
<td>903</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----</td>
</tr>
<tr>
<td>Total Classroom Learning Technology Allocation</td>
<td>$30,000</td>
</tr>
<tr>
<td>Non Public Tech Loaning Program Allocation</td>
<td>$10,000</td>
</tr>
</tbody>
</table>


**PROFESSIONAL DEVELOPMENT**

**Designing professional development and addressing diverse learning needs** - The district’s professional development plan is aligned to its needs, as determined by various data points collected through surveys and observational data. The district provides in-person training before, during, and after school hours; during faculty meetings; through external Teacher Center offerings; at building level Technology Committee meetings; during faculty meetings; when school is not in session or holiday breaks; via online resources developed specifically for the district population and via targeted resources disseminated through email or on training websites. Professional development opportunities follow established best practices and respect the various needs and learning styles of our adult learners.

**Content knowledge and quality teaching; Technology** - Our professional development is designed to take existing content knowledge and scaffold those skills to new experiences and learning opportunities for teachers and students. This process includes sharing strategies for moving along the SAMR continuum with purposeful implementation of to maximize the impact on student learning.

**Research-based professional learning and collaboration** - The district utilizes internal resources as well as subscribing to services offered by the Lower Hudson Regional Information Center and Putnam Northern Westchester BOCES. These have been selected with a focus on research based models and teachers are encouraged to participate in professional learning communities, both on-site and online, and the district promotes this
with credit or reimbursement.

**Student learning environments; Parent, family and community engagement** - Our professional development plan places a strong emphasis on digital literacy. This follows the NETS standards for teachers and students, and includes many points of information for parents. The learning environments both in school and suggested for home are developmentally and age appropriate, and parents and community members are included in learning opportunities through online communications as well as presentations and workshops.

Professional learning opportunities in the Haldane Central School District focus on several specific areas:

**SUSTAINABILITY**

The District is committed to working upgraded and new devices purchased through the Smart Schools Bond Act into the equipment replacement cycle already in place. Each year, over the next 4 years, an allotment of funds will be budgeted for the normal repair costs of a percentage of the total devices. After (4) years the devices will be replaced and/or reallocated in order to ensure the equipment stays current and new technology is supported. The school district will also use when needed other financial instruments such as IPA and leases to ensure our technology adequately supports instruction in Haldane CSD.

**PROVISIONS AND DISTRIBUTION TIMELINE**

Once the Haldane CSD Smart Schools Bond Act Investment Plan is approved by Smart Schools Review Board the equipment will be purchased in accordance with the District’s purchasing policies and budget cycles. Once equipment arrives the Technology Department Staff will prioritize inventory and provision of the equipment in accordance with our multi-year plan. Based on proposed quantities, equipment should be in place and operational within 30-60 days after it arrives. Projects are prioritized in the below order:

1. Modernize and expand the Haldane CSD network infrastructure
2. Upgrade and extend the Haldane CSD wireless network capacity

**REFERENCES**

To learn more about the Smart Bond Act Guidelines go to:

http://www.p12.nysed.gov/mgtserv/smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf
