# Haldane Central School District 15 Craigside Drive Cold Spring, NY 101516

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 Guidlines go to:

http://www.p12.nysed.gov/mgtserv/smart\_schools/

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#### 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

SSBA Budget Category	Allocations
School Connectivity	\$218,055
Classroom Learning Technology	\$20,000
Manitou Private School Technology Loan	\$10,000
Total allocated	\$248,055
BOND TOTAL	\$248,055

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

SCHOOL CONNECTIVITY	SUB-ALLOCATIONS
School Internal Connections and Components, including wireless access points	
Servers/wiring/racks/etc	\$41,840
Server Storage HP MSA (20TB unit)	\$27,000
Meru Access Points (44)	46,215
Cisco Switches (8)	65,000
UPS (8)	\$13,000
Professional Services - Configuration and engineering/Installation	\$25,000
Other Upfront Costs - Firewall/filter	\$0
Totals (School Connectivity)	\$218,055

- 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 Guidan ce 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.

Haldane CSD Students	863
Haldane CSD Staff	150
Manitou K-4 Students	40
Manitou K-4 Staff	10

Total K-12 Student	903
Total Classroom Learning Technology Allocation	\$30,000
Non Public Tech Loaning Program Allocation	\$10,000

## Source:

http://www.p12.nysed.gov/mgtserv/documents/SSBAQuestionsASBO102615 updated 1 21 \_\_16.pdf (page 7)

## 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 Guidan ce 04.27.15 Final.pdf

http://www.p12.nysed.gov/facplan/SmartSchoolsBondAct.html