

Liverpool Central Schools

The SMART SCHOOLS BOND ACT OF 2014 was passed in the 2014-15 Enacted Budget and approved by the voters in a statewide referendum held during the 2014 General Election on Tuesday, November 4, 2014. The Smart Schools Bond Act authorized the issuance of \$2 billion of general obligation bonds to finance improved educational technology and infrastructure to improve learning and opportunity for students throughout the State.

All districts will be required to submit a Smart Schools Improvement Plan to demonstrate how Smart Schools Bond Act funds will be used to provide the educational tools and opportunities students throughout New York State will need to succeed in the 21st century economy.

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. [Link](#)

The District submitted the Technology Plan and it was approved July 15, 2015.

Liverpool's allocation is **\$5,345,676**. The amount allocated doesn't have to be spent all at once and can be spent over a period of time. The District will re-submit the Smart Schools Improvement Plan every year for which will be done at the same time as our Technology plan update.

Upgrading Backbone from 1Gb to 10Gb

Core Switches

High School & Liverpool Middle Schools

44 Site Switches

Network infrastructure upgrade. With the addition of more technology (Chromebooks, iPads, BYOD, etc.), and faster wireless networks (802.11ac devices), the demand on the core infrastructure of the network is approaching its capacity. The core switches, which were installed in 2000, are reaching their performance limits (they do not support 10 Gbps). To accommodate the increased instructional demand, it is necessary to upgrade the core switching equipment and the communication fibre from its current 1 Gbps speed to the new industry standard of 10 Gbps, a 10-fold increase in speed. (There are no speed increments between 1 and 10 gigabit.) Accomplishing this does not require upgrading the fibre itself, but does require replacing the old switching equipment which drives the fibre. The newer equipment will also afford an increased level of redundancy, making the overall district-wide network more fault tolerant. In light of the fact that we now run our telephone and security systems over the data infrastructure, making the data network more reliable is critical to keeping our students and staff safe and secure.

Interactive Projectors

Need to successfully
and efficiently implement consistent
technology tools across all schools

Epson interactive projectors were included in the Technology Plan starting in 2011. New technology has made it possible to incorporate the interactive whiteboards and projectors into a single unit with touch connectivity, eliminating the need to find pens to use with the interactive whiteboards and yet still have all the benefits of this great technology teaching tool. Replacing each projector is a goal of the current Technology Plan. Utilizing the Smart Schools Bond Act to replace all units at one time will accomplish the goal from the Technology plan while keeping a standard install for the district to maintain and support. Having all the same units will also assist instructional integration in a uniform manner.

Instructional Laptops

Consistency throughout the District
Reliability, performance and connectivity

Instructional laptops are also part of the technology plan. The plan was for these to be replaced in two years, moving this up will allow for the teacher laptop refresh to coincide with our summer break. This would be extremely beneficial as it would allow time for professional development and training on these new laptops. An additional benefit would be taking the existing teacher laptops, and use them to supplement for student computers. This would help us reach our goal of having enough computers for 1:1 usage.

Item	Estimated Cost	Total
Network infrastructure	\$900,000	
Epson interactive projectors	\$819,470	
Teacher laptops	\$701,000	\$2,420,470

Application Process with steps and dates completed:

1. Review allocation amount
2. Identify district needs
3. Stakeholder engagement
4. Instructional technology plan-submitted and approved July, 2015
 - a. Contact SUNY Teacher Prep Program Coordinator at Oswego State.

5. Preliminary Plan submission to BOE - October, 2015
6. 30 day Review-public comments accepted
7. Public Hearing - November 9, 2015
8. Final proposed plan-BOE Approval - November 23, 2015
9. Submit to SED
10. Expenditure and reimbursement of funds.

This plan presents the District's best assessment of how to bridge where we are to where we are going to ensure our students are achieving mastery in implementing 21st century skills.