

Technology Status

January 2012

Initiative	2008-2009	2009-2010	2010-2011	2011-2012
WAN Bandwidth	20 mb	20 mb	20 mb to all sites except AHS which is 100 mb	ECDC-20 mb AHS-100 mb Other schools-50mb All sites are burstable* to 100 except AHS which is burstable to 1000 mb
State NCREN backbone	100 mb	100 mb	100 mb	250 mb
New interactive classrooms	112 complete, 26 more in planning	SMART Boards purchased for remaining classrooms	SMART Boards in all regular classrooms	Adding SMART Boards to non-core instructional spaces
Networked computers	1572	1993	Approximately 3493	Approximately 4394
Networked labs	18 full, 2 mini-labs	No change	17 full, 2 mini-labs (one disassembled due to 1:1 at AHS)	15 full, 2 mini-labs (two disassembled due to 1:1 at NAMS & SAMS)
Wireless mobile labs	20 complete, 1 on order	29	To be added in elementary schools, 1:1 will be focus in middle and high	85
Wireless access	almost total coverage at all sites	almost total coverage at all sites, wireless assessments completed at AHS, NAMS, SAMS with plans to expand coverage	Wireless upgraded at all sites to 802.11n	Maintaining 802.11n wireless at all sites
Ratio of students to computers	4.18 to 1	3.3 to 1	Approximately 1.7 to 1 due to AHS 1:1	1.07 to 1
Printing capability	almost 100% network printers	Migrating to copier/printers	Majority migrated to copier/printers	Maintaining migration to copier/printers
Microsoft Office licenses	Office 2007 district-wide	Upgrade still in progress	Upgrade to Office 2010 on new machines	Continuing to upgrade to Office 2010 as needed

Automated rapid notification service	ConnectED expanded to include Central Office staff	Changed to AlertNow	AlertNow used for frequent/important communication	AlertNow used for frequent/important communication
1:1 initiative at AHS		Planning began	Planning for rollout in early 2011	Rolled out in Jan. 2011 at AHS, planning for sustainability
Follett Destiny Library Management		Implemented in all 8 schools	Used for library management and computer	Automatically updating patron data from NCWISE
Infrastructure Management		Completed by MCNC (Microelectronics Center of North Carolina)	Upgraded infrastructure to 1 gigabit core switches	Added monitoring and assessment tools to better manage infrastructure Preparing to implement state-provided firewall and content filter
Personnel			Added one technician	1 director 1 network engineer 1 computer systems specialist 1 lead teacher 3 technicians 1 temporary technician from HP 8 technology facilitators
Servers		Implemented first virtual server application	Continued expansion of virtual servers	Continued expansion of virtual servers and upgrades to existing servers
1:1 initiatives at NAMS and SAMS				Rolled out in Fall 2011 for in-school use
EduVision				Secure video service for posting student work, professional development videos, and live streaming of events
Increased access to technology at elementary schools				Added mobile carts with laptops (enough for 4 th and 5 th grade students-to be shared with other grade levels)
Learning Management Systems				Using Moodle at AHS and NAMS, Edmodo at SAMS and GBT
Blended professional				All staff participating in PLC and completing

development				Moodle modules
Backup and disaster recovery				Implementing improved backup and disaster recovery methods and procedures
Facilities and Maintenance				Upgrading networked heating and air conditioning controls

Long Range Plans

- Maintain robust network to handle ever increasing informational and instructional needs
- Update technology policies
- Improve teaching and learning by advancing effective use of technology
- Increase use of technology for formative assessment
- Increase access to technology; explore community-based wireless access
- Implementing improved backup procedures and disaster recovery procedures
- Provide laptop to all certified personnel
- Increase use of web-based applications
- Expand project-based learning
- Develop new educational technology plan
- Explore options to sustain 1:1
- Explore possible outsourcing for email and archiving

*An option that allows sites to use the available network capacity to handle periods of peak usage.