

REQUIRED SUBSTANTIVE COMPONENTS
OF THE
LOCAL SCHOOL DISTRICT TECHNOLOGY PLAN

Schools, school districts, and libraries that want to apply for Schools and Libraries support, commonly referred to as "E-rate," must first prepare a technology plan. Beginning with FY2011, technology plans are required only for Priority 2 services (Internal Connections and Basic Maintenance of Internal Connections). An approved technology plan sets out how information technology and telecommunications infrastructure will be used to achieve educational goals, specific curriculum reforms, or library service improvements.

A technology plan designed to improve education should cover the entire funding year (July 1 to June 30) but not more than three years. The plan must contain the following elements:

Goals and realistic strategy for using telecommunications and information technology

A professional development strategy

An assessment of telecommunication services, hardware, software, and other services needed

Ongoing evaluation process

Policies

The technology plan must be approved by a USAC-certified technology plan approver before discounted services can begin. The state is the certified technology plan approver for libraries and public schools. www.usac.org, August, 2011.

LEA/Charter Name: Currituck County Schools

LEA/Charter Number: 270

Superintendent Name: Allison Sholar

Superintendent Signature _____

Local Board Chair Name: Dr. William Dobney

Local Board Chair Signature: _____

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Currituck County Schools
Technology Plan

2014-2016

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References

**Currituck County Schools
District Media and Technology Advisory Committee**

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Job Title/Position

Assistant Principal
Media Specialist
Media Specialist
Parent
Teacher Assistant
Auxiliary Services Coordinator
Instructional Technology Facilitator
Media Specialist
CIO
Network Engineer
Technician
Media Specialist
Assistant Finance Officer
Currituck County Finance Officer
Parent
Media Specialist

**Currituck County Schools Technology Plan
2012-2014**

Vision Statement

Students, teachers, and other employees of the Currituck County School District will have ready access to any technology tools needed for teaching, learning, and business operations. Professional development will always be available and provided to meet the needs of faculty and staff. Hardware, software, and connectivity problems will be corrected immediately so the impact on the user is negligible.

**Currituck County Schools Technology Plan
Strategic Priorities
2014 - 2016**

Shared Services Model

Universal Access to Personal Teaching and Learning Devices

Access to Digital Teaching and Learning Resources, Including Digital Textbooks

Model of Technology-Enabled Professional Development

21st Century Leadership for Currituck County Schools

Strategic Priority 1: A Statewide Shared Services Model

Essential Questions for Currituck County Schools

How will we leverage collaborative purchasing to pay substantially less for technology services and platforms?

How can a Statewide Shared Services Model assist in shifting primary support from infrastructure to instructional needs?

How can a Statewide Shared Services Model enable increased infrastructure and technology efficiency and sustainability?

How can a Statewide Shared Services Model provide higher service reliability?

How can a Statewide Shared Services Model facilitate more strategic budgeting models for our LEA/Charter School?

Current Status and Moving Forward

Technology staff is eagerly following the state efforts in the cloud computing area. We are using the Zscaler filtering solution and the firewall provided by MCNC. This has resulted in savings and increased efficiency. There are still some challenges with using Zscaler and Chromebooks. We are awaiting the new single sign-on solution from the state and hope to take advantage of that offering.

We expect participation in these and future statewide shared services models will result in increased savings and increased efficiency. We will explore and test the Identity and Access Management offering when it becomes available.

We have applied for Priority 2 E-rate funding to upgrade the wired and wireless networks in the schools that are eligible. We are applying for Golden Leaf funding to upgrade the remaining schools.

We currently purchase our desktop computers in bulk from the refurbished market. This has resulted in savings of approximately 50% of the cost of new computers.

Current WAN speeds are 1 Gig to our main site and 200 M to other schools. Knotts Island Elementary uses a cable modem because of the remote location and unavailability of metro-ethernet. The demand for bandwidth is expected to increase as more devices are added to the network.

We currently use HP Procurve switches for our internal network. The switches at the core site are robust enough to handle current traffic but will need to be upgraded as traffic from the remote sites increases. The wired networks in the schools range from Cat 3 to Cat 6. Eight schools need to be upgraded to Cat 6. The wireless networks in the four secondary schools will support 1:1 but the other six schools need to be upgraded.

Alignment to Other Plans and Initiatives:**Strategic Priority 1: A Statewide Shared Services Model**

Currituck County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...

ACRE

By participating in the shared services model offerings, our LEA/Charter will better prepare for the transition to online assessments, digital textbooks and universal access to personal teaching devices.

Career and College Ready, Set, Go!**Race to the Top Local and State Scopes of Work****Other LEA initiatives/plans**

District Strategic Plan calls for interactive white boards in all classrooms and laptops for all teachers.

1. Statewide Shared Services Model

Goals/Targets	Year 1	Year 2	Yearly Evaluation	
	July 1, 2014 – June 30, 2015	July 1, 2015 – June 30, 2016	Evaluation Method(s)	DPI Use
Provide equitable and additional access to digital resources	Provide access to NC Wiseowl, SAS inSchool, Learn360, Thinkfinity, and other resources to all schools. CIO	Provide access to NC Wiseowl, SAS inSchool, Learn360, Thinkfinity, and other resources to all schools. CIO	AMTR, local surveys	
Promote/maintain innovative funding model by utilizing NCEdCloud offerings and alternatives	Evaluate Cloud service options, including IAM, for most cost efficient and best service solutions. Implement those that are effective and efficient. CIO	Evaluate Cloud service options, including IAM, for most cost efficient and best service solutions. Implement those that are effective and efficient. CIO	Evaluation Reports	

Provide content filtering in accordance with the Children's Internet Protection Act (CIPA).	Continue to implement content filtering through the NC Education Cloud CIO	Continue to implement content filtering through the NC Education Cloud CIO	Filtering logs
Maximize E-rate in support of instructional programs	File for E-rate discounts annually on WAN services, cellular phones service including cellular data access, VOIP phone service, local and long distance phone service and other eligible P1 services. File for Priority Two funding for eligible schools to improve internal networks, both wired and wireless. Evaluate and possibly use E-rate consultant. CIO	File for E-rate discounts annually on WAN services, cellular phones service including cellular data access, VOIP phone service, local and long distance phone service and other eligible P1 services. File for Priority Two funding for eligible schools to improve internal networks, both wired and wireless. Evaluate and possibly use E-rate consultant. CIO	E-rate 470/471
Continue to upgrade Internet access, WAN services, and LAN services to accommodate the increasing demand of digital resources	Upgrade of all switches that are end of life and more than 6 years old. CIO, Network administrator	Analysis of network traffic to determine usage and speed to determine what upgrades are necessary, ie, switches, incoming Metro-E, etc CIO, Network administrator	Purchase orders, network monitoring reports
Continue to refresh desktop and laptop computers with models that are sufficient for current and future needs	Monitor, refine, and implement the comprehensive refresh plan with cost estimates	Monitor, refine and implement refresh plan	Refresh plan, purchase orders

Strategic Priority 2: Universal Access to Personal Teaching and Learning Devices

Essential Questions

What is universal access to personal teaching and learning devices?

Why do our teachers and students need access to personal teaching and learning devices?

How will we provide ample access to individual teaching and learning devices?

What models can be used for implementing universal access to personal teaching and learning devices in Currituck County Schools.

Current Status and Moving Forward

In August 2013 the district began a 1:1 deployment of Chromebooks to all student in grades six thru twelve. The deployment has been a challenge as it was accomplished with no additional personnel. We are currently exploring ways to improve support without hiring additional full-time personnel. Wireless networks were upgraded in the schools to support 1:1.

Erate applications have been filed to improve the wired and wireless networks in the schools to support the additional devices..

We currently have an ongoing 1:1 project at the J.P. Knapp Early College High School using Dell netbooks. This is the sixth year of the project and it has been successful.

We will also continue to advocate for personnel to support the increased number of devices in the field.

Alignment to Other Plans and Initiatives:

Strategic Priority 2: Universal Access to Personal Teaching and Learning Devices

Currituck County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...

ACRE

Personal Devices will allow students to access the IIS and online assessments

Career and College Ready, Set, Go!

Race to the Top Local Scope of Work

Objective (C)(3) 1.2 Utilize technology funds to enhance school and LEA technology infrastructure to facilitate online real-time assessments at each school.

Priority 2: Universal Access to Personal Teaching and Learning Devices

Suggested Goals/Targets	Year 1	Year 2	Yearly Evaluation	
	July 1, 2014 – June 30, 2015	July 1, 2015 – June 30, 2016	Evaluation Method(s)	DPI Use
Ensure infrastructure will support universal access	Upgrade wired and wireless networks as funds permit. If E-rate and Golden Leaf funding are approved we could upgrade all schools in year 1. If not, we will begin the process of upgrading as funds are available.	Continue to evaluate wired and wireless networks and upgrade as required to support universal access and as funds are available.	Purchase orders, Wireless surveys, Network monitoring reports	
Evaluate personal teaching and learning devices	Purchase and deploy various personal devices to evaluate effectiveness	Continue to purchase and deploy personal devices based on results of evaluations	Evaluation reports, purchase orders, AMTR	

Develop a comprehensive sustainable LEA plan for universal access.	Monitor, revise, and plan for universal access CIO, MTAC	Monitor, revise, and implement plan for universal access. CIO, MTAC	Plan, Implementation reports
Advocate for adequate personnel as identified in the comprehensive plan to support universal access	Submit budget request with justification for personnel	Submit budget requests with justification for personnel	Budget requests
Communicate plan to all stakeholders.	Communicate plan via website, , letters/newsletters to parents, local news. CIO	Update various publics on plan implementation	Plan, copies of communications

Strategic Priority 3: Statewide Access to Digital Teaching and Learning Resources, Including Digital Textbooks

Essential Questions

What are digital teaching and learning resources? What are digital textbooks?

Why do teachers and students need access to digital teaching and learning devices?

What are the benefits of digital textbooks?

What are open educational resources and how can they be used?

How can access to these resources be increased in Currituck County Schools?

Current Status and Moving Forward

Digital teaching and learning resources include digital textbooks, online original source documents, commercial video productions, instructional software, etc. We currently utilize Learn360, NC Wise Owl, Thinkfinity, SAS in School, and various other digital resources.

Many of our current textbooks come with digital resources, either a full text book or supplementary material. . We are also exploring open source products. We expect open source textbooks, particularly in the common core areas to flourish in the next one to three years.

We are training teachers on using the SchoolNet portion of HomeBase. We have already committed to subscribing to SchoolNet for the 2014-2015 school year using RttT funds. This will give teachers access to thousands of resources that are aligned to common core and essential standards.

SchoolNet leads have been identified at each school. They have received in-depth training and are in the process of redelivering that training to the teachers in the school. PowerSchool leads have also been identified in each school. They were given in-depth training on the teacher grade book. They have provided training for teachers and will provide follow-training throughout the year.

Secondary teachers are using the Hapara Teacher dashboard to share resources digitally with students.

Alignment to Other Plans and Initiatives:**Strategic Priority 3: Statewide Access to Digital Teaching and Learning Resources, Including Digital Textbooks**

Currituck County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...

ACRE

Career and College Ready, Set, Go!

Race to the Top Local and State Scopes of Work

Objective (C)(3) 1.4 Work as partners with DPI staff to incorporate the IIS into the daily operational aspects of school

3: Statewide Access to Digital Teaching and Learning Resources, Including Digital Textbooks

Suggested Goals/Targets	Year 1		Yearly Evaluation	
	July 1, 2014 – June 30, 2015	Year 2	Evaluation Methods(s)	DPI Use
Shift from traditional print and paper-based resources to affordable, current online resources	Provide training in HomeBase so teachers can access online resources.. CIO/RttT curriculum teams	Continue training in the use of online assessments and resources in the HomeBase system.. CIO/RttT curriculum teams	Evaluation reports, use reports	
Utilize procured resources such as NC WiseOwl, and other open education resources	Develop a clearinghouse of online instructional resources tied to curriculum objectives. CIO/RttT Curriculum Teams	Maintain and update clearinghouse of instructional resources tied to curriculum objectives. CIO/RttT Curriculum Teams	Local surveys	
Use digital content aligned specifically to Common Core and NC Essential Standards	Continue the 1:1 implementation at grades 6-12 and increase the number of devices available to	Continue the 1:1 implementation at grades 6-12 and increase the number of devices available to	Purchase orders, HomeBase records	

grades K-5 so they can access
HomeBase aligned
resources.CIO

grades K-5 so they can access
HomeBase aligned resources
CIO/Curriculum Leaders

Strategic Priority 4: A Statewide Model of Technology-Enabled Professional Development

Essential Questions

What skills are needed to transition to digital teaching and learning resources?

How can these skills be delivered and sustained to our LEA teachers and administrators?

How do teachers, administrators, and staff work with colleagues to guide our LEA toward more effective uses of 21st Century tools for teaching, learning, and managing instruction?

How are teachers, administrators, and staff prepared to understand, implement, and assess the span of skills and processes that students need to succeed in the 21st Century?

How are teachers, administrators, and staff prepared to apply 21st Century assessment systems to inform instruction and measure 21st Century knowledge, skills, performance, and dispositions?

Current Status and Moving Forward

Professional development has been a challenge this year. The 1:1 Chromebook initiative would have benefited from more up-front professional development with faculty and staff. Our Professional development needs are wide-ranging, including Using Google Apps for Education, Finding and using online resources, classroom management in a 1:1 classroom, and technical support.

We have one district-level technology facilitator. We have requested an additional technology facilitator but funding is the problem now.

We have two weeks of professional development already planned for this year, covering the topics above. We plan to take a relatively large group to NCTIES this year. We are also exploring online professional development provided by Intel.

HomeBase and its component parts have also been, and will continue to be, a focus of training. We regularly take advantage of training provided by the RESA.

We currently administer all EOC and EOG tests online that are available. We are also beginning to use SchoolNet in HomeBase for assessment.

Alignment to Other Plans and Initiatives:

Strategic Priority 4: A Statewide Model of Technology-Enabled Professional Development

Currituck County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...

ACRE

Career and College Ready, Set, Go!

Race to the Top Local and State Scopes of Work

Objective (C)(3) 1.3 Designate current staff to help educators utilize EVAAS and assessment data for instructional and program decision making.

4: A Statewide Model of Technology-Enabled Professional Development

Suggested Goals/Targets	Year 1	Year 2	Yearly Evaluation	
	July 1, 2014 – June 30, 2015	July 1, 2015 – June 30, 2016	Evaluation Method(s)	DPI Use
Implement a plan for embedded technology-enabled professional development for teachers and administrators. Prepare media specialists and instructional technology facilitators to support digital reform.	Develop and implement plan for PD CIO/Assistant Superintendent Train Media Specialists on ITES CIO	Revise and implement plan for PD CIO/Assistant Superintendent Provide continued PD through Media Specialist PLC time CIO	Sea System Logs and evaluation surveys, Agendas/Sea System logs/ PLC plans	
Deliver Common Core and Essential Standards training to teachers using integrated technology as a model for further classroom integration.	Continue CC/ES training with teachers CIO/Assistant Superintendent	Continue CC/ES training with teachers CIO/Assistant Superintendent	Agendas/Sea System logs/	

Strategic Priority 5: 21st Century Leadership for All Schools and Districts

Essential Questions

Are your LEA/Charter leaders prepared to lead and create a vision for 21st century education?

Are mechanisms in place for school leaders to create 21st century learning cultures?

Are professional growth programs/opportunities available to prepare teachers and administrators to lead 21st century learning environments?

Current Status/Moving Forward

Our LEA leaders have participated in 21st Century Skills training and will continue to do so. We will integrate 21st Century Skills and methods in our Curriculum and Instruction meetings.

Alignment to Other Plans and Initiatives:**Strategic Priority 5: 21st Century Leadership for All Schools and Districts**

Currituck County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...

ACRE

Career and College Ready, Set, Go!

Race to the Top Local and State Scopes of Work

21st Century Leadership is a requirement in the new Principal's evaluation system

5: 21st Century Leadership for All Schools and Districts

Suggested Goals/Targets	Year 1	Year 2	Yearly Evaluation	
	July 1, 2014 – June 30, 2015	July 1, 2015 – June 30, 2016	Evaluation Method(s)	DPI Use
Provide Internet Safety Training in all schools	Each School will design and implement a plan for Internet Safety training each year CIO/SIT	Each school will revise and implement plans for Internet Safety Training CIO/SIT	Schedules/Lesson Plans Signed statements from Principals	
Create 21st century learning cultures	Integrate 21 st Century Learning practices in Common Core and Essential Standards PD CIO, RttT Team	Integrate 21 st Century Learning practices in Common Core and Essential Standards PD CIO, RttT Team	Agendas LoFTI	
Prepare teachers and administrators to lead 21st century learning environments	Integrate 21 st Century Learning practices in C&I and Principal meetings. CIO/Assistant Superintendent	Integrate 21 st Century Learning practices in C&I and Principal meetings. CIO/Assistant Superintendent	Agenda	

**Appendix A: Policies and Procedures
Currituck County Schools Technology Plan
Policy, Procedure, & Guidelines Implementation Chart**

Policies, Procedures, & Guidelines	LEA Policy Code or Procedure	LEA Adoption, Implementation or Revision Date
Policies Required		
A. Materials Selection Policy including internet resources (GS §115c-98(b))	3200	3/12/2012
B. Disposal of Equipment / Replacement of Obsolete Equipment (GS §115c-518)	3220	3/12/2012
C. Hardware and Software Procurement (GS § 115c-522 , 115c-522.1)	3220	3/12/2012
D. Copyright and Plagiarism Policy (PL §94-553 , 90 Stat. 2541),	3230/7330	3/12/2012
E. Acceptable Use Policy (PL §106-554)	3225/4312/73 20	6/28/13
F. Equipment/Materials Donation Policy (GS §115C-518)	3220	3/12/2012
G. Data Privacy Policy (20 U.S.C. § 1232g ; 34 CFR Part 99 (FERPA))	4700	5/14/2012
H. Inventory Control Policy (GS §115c-539 , 115c-102.6A-C(5))	6510	6/28/2013
I. Access to Services Policy (GS §115c-106.2)	3520	8/8/2011
J. Online Assessment and Instruction Policy		
K. Advertising and Commercialism Policy (GS §115c-98)	5240	11/20/2012
L. Internet Safety and Ethical Use including Cyberbullying and Harassment (Protecting Children in the 21st Century Act , CIPA , FERPA , GS 115C-407)	3225/4312/73 20	6/28/2013
Procedures		
A. Hardware and Software Deployment	3220	3/12/2012
B. Equipment maintenance and repairs	3220	3/12/2012
C. Outdated Resources and Equipment Replacement	3220	3/12/2012
D. Disaster Recovery of Data and Hardware	6524	3/12/2012
E. Administration of Online Courses		
F. Administration of Online Assessment		
Guidelines		
A. Policy Translation		
B. Use of Digital Media and Resources	MT517	9/17/06
C. Instructional Use of Videos	MT219	7/1/06
D. Development of Online Resources		