Technology Plan
LIVINGSTON COUNTY SCHOOLS
Smithland, Kentucky

http://www.livingston.kyschools.us

Creation Date: May 2, 2016
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Pending Board Approval

Acknowledgments

The Technology Plan Committee consists of representatives from various aspects of the district. This committee evolved from the tech refresh committee. As this document is ongoing, committee members can advise additions/corrections, amending at any point throughout its lifespan.

Technology Committee members:

Central Office Admins:

Victor Zimmerman, Superintendent
Amy Ramage, Dir. Pupil Personnel
Pam Garrett, Dir. Special Education
Melvin Houk, Finance Dir.
Tammy Sayle, Preschool Dir./School Psychologist

LCS Office of Technology:

BJ Rushing Fern, DTC, Network/System Admin
Regina Durard, District Technician/Web Admin
Twila Coleman, IT Assistant

Principals*:*

Scott Gray, Livingston Central High School
Bobby Love, Livingston County Middle School – 7/1/17
Rebecca Dunning, South Livingston Elementary School
Sheri Henson, North Livingston Elementary School
T. Lisa Huddleston, Livingston County Middle School –Retiring 6/30/17

Other Representatives:

Michael Edmondson, SpEd Teacher LCMS
Blake Bradley, SpEd Teacher LCHS
Mary Dunning, Food Service and 21CCLC Director

Executive Summary

The district's goal is to enable schools to meet technology needs for students and staff to enhance digital learning. This plan calls for implementing strategies, supporting existing technologies; with the intent of incorporating new and emerging technology needs to develop 21st Century Learners. The district strives to meet the needs of students to be College and Career Ready while Reaching for Excellence Daily through the Live RED campaign.

Increased student achievement in curriculum subject areas and technology literacy:

Utilizing dense wireless coverage allows the option of learning via mobile device methods and cloud based applications. The district realizes the importance of digital citizenship and safe cyber practices. Combining the CSIPs and CDIP strategies of improving curriculum subject areas and technology literacy with the mobile learning opportunities, educators can accommodate all learners to achieve.

Teachers' use technology tools for innovative and effective teaching and learning:

As funding allows, classrooms across the district offer a variety of technology tools to facilitate technology into daily instruction. Classrooms are available with projectors/screens, whiteboards, instructor's computer, and various peripherals. Many classrooms have additional devices: smart type systems, iPads, CPS systems, and mobile devices/charging carts. Every school has a minimum of one hard-wired computer lab. Teachers have a variety of training/Professional Development sources to increase their knowledge of integrating technology into instruction.

Enhanced communication between the district and parent and the larger community:

The district has a web site hosted by a paid vendor and web administrator; updates the site, and assists schools/teachers with web pages.

Utilization of social media (i.e., Facebook, Twitter) in combination with an automated calling system, communicates news/events.

The schools are interactive parts of the community. The gymnasium is often a place for special/community events and meetings.

The district houses Family Resource Youth Centers (FRYSC) at the schools, which services local needs.

Livingston County School District established a foundation to provide an opportunity for businesses, staff, community, alumni, etc., to participate by providing financial support.

Planning Process and Methodology

The technology planning and plan-writing process and The exercises undertaken to accomplish the task of revising the plan and the role that committee members, as whole, play in that process.

The tech plan is a culmination of ideas and goals of individuals, representing various roles within the school district. They serve as committee members who communicate via email, phone calls, and group meetings to express short and long-term technology goals for their stakeholders. Each committee member represents various aspects of the school environment; with a common goal of offering students and staff the opportunity to be successful in the expanding digital age of learning.

The frequency with which the plan is evaluated and Person(s) responsible for reviewing the revising the plan.

The plan will be evaluated a minimum of once a school year but as technology changes so can this plan. Any committee member who would like to edit, change, or add to the document can revise it. Prior to reposting, committee members will view the revised document and changes approved by the Superintendent and the Board of Education Members. As committee chair, the DTC, or their designee, will review the tech plan to evaluate the status of goals and intended strategies and share results with members.

Which goals were met, which goals were not met and/or had unanticipated outcomes, goals that remain to be accomplished, goals that are no longer relevant, and needs that emerged as a result evaluation of the previous plan.

The main goal of the FY17 tech plan was to provide dense wireless infrastructure to the schools (additional to the hardwired devices). E-Rate funds approved offset the cost of ($170,000+) of saturating the district with wireless access and new switches.
This goal--completed summer 2016.

Survey results (Bright Bytes) indicated a need for additional information about various flavors of wireless devices and their ability to function in an educational enterprise. Tech staff demonstrated (as requested), various mobile devices. The district hosts a mixed environment of devices for 21st Century learning (desktop computers, laptops, tablets, netbooks, Kindles, iPads). The teachers select the device(s) to meet specific goals/outcomes.
This goal—continuing.

A need for on-going communication between the technology department and the district principals, leaders, SBDM (School Based Decision Making Council) members, became clear to meet the needs of the individual schools, students, and staff.
This goal emerged—continuing.

Stakeholders and tech plan members expressed a need for a type of technical integration specialist (TIS). This person(s) would assist with training and ease of use for all technical devices related to instruction for staff/students.
This goal---modified to meet specific needs of individual schools.

Individual schools with approval from their respective SBDM council, will work with teachers to decide what technology integration is necessary for instructional/curriculum goals.
This goal--emerged.

Current Technology and Resources

Technologies already in place (e.g. network, phones, security systems, hardware, software, etc.).

The technology department housed on the upper level of the high school with staff offices and the district MDF. All servers operate in a virtual environment to meet needs of the technical demands of the district. The district has a combination of hardwired and wireless access in all buildings.

The schools connect via 1 GB fiber internally with a 100 mg pipeline allocated by KDE. There are many Internet accessible devices for students/faculty/staff.

All schools have LAN line phones with access to local/long-distance in classrooms and offices. All schools maintain fax machines (which have an analog phone for use during power failures). Each school's primary door is equipped with a secure door lock-bell system for entry (all outside doors are locked). Visitors have limited access to the schools without checking in/out via the security procedures in the school office(s). Individual schools have a 24/365 video (recording) system with camera surveillance monitoring the interior/exterior of the premises.

The condition of current technologies (i.e. bandwidth, age, capacity to utilize network and software resources), what works well, what doesn't work well, and maintenance processes and procedures.

-Kentucky Department of Education, Office of KETS upgraded the district bandwidth. Given the number of users and devices, the speed of access is not an issue.
-The district has an adequate number of hardwired desktop Window computers but several are older models.
Using KETS and Non-KETS funds, all 32-bit workstations replaced with 64-bit\4GB of memory
During FY17, funds replaced the workstations used for testing purposes (in labs) and other will follow as funding allows.
Goal---continuing.

-Traditional classrooms host projector, instructional device, student workstations (per school preference), and several rooms offer Smart type devices.
Projectors in the elementary schools are generally 5+ years old. Replacing projectors will entail new cabling for HDMI connectivity (from VGA).
Goal—replace as funding allows.

-Student networked printing needs have decreased with the implementation of mobile devices and cloud storage. Local classroom printers are per approval/funds from each school. Student networked printing access and purchase/maintenance of those printers were part of the tech staff responsibilities.
Goal—explore student needs.

-Server storage needs have shifted from software, to network management components and data storage. The virtual system due to age, consider replace FY18.
Goal—replace SAN as funding allows.

-The district covers the cost of licensing for LMS (Learning Management System: Apex), IC (Infinite Campus: student information system), Munis (financial software) and several of the online tests. Other learning based software costs paid from local school funds.
Outcome—Schools will continue to select which software meets needs for instructional/curriculum goals.

-As the district continues with budget reductions, a technology refresh plan now modified to replace technology related hardware, workstations, projectors, on a priority basis as funding permits.

Accessibility of technology for learners – where are systems located (labs, classroom workstations, mobile carts) – and steps taken to ensure that all students, including those in high-poverty and high-need schools, have access to technology?

-Each of the schools has a minimum of one computer lab with student workstations. They meet KETS standards for testing. Student computers in individual classrooms range from 1-5 depending on preference. All libraries are equipped with networked computers.

South will be adding a second computer lab which will be wireless.

FY17--Implemented and complete.

-Liv Co Middle School has purchased 30 laptop devices with a charging cart to meet their expanding needs in the Cardinal room.

FY17--Implemented and complete.

-Students that require special services have resource classrooms at all schools. Each resource room has computers for student use.

FY17--Implemented and complete.

-The tech department will continue to work with special education to combining resources to meet the needs of assistive/adaptive tech related equipment.

Goal—continue as funding allows.

-Students in credit recovery, RTI, etc., have the opportunity for extra computer access during the instructional day and by attending the after school 21st CCLC program. The after school program has their technology resources. They offer tutoring and other technologically advanced opportunities. The 21CCLC grant is the funding source for equipment, staff, devices, software, etc. The utilize district facilities, and support from technology staff.

21stCCLC purchased several additional devices. Tech staff maintains assistance of devices during normal contract hours (in addition to district devices)

Goal-Emerged to cover additional devices.

-Students and staff have the opportunity to earn Microsoft accreditation at no cost via the partnership between Microsoft and KDE. As students strive to be college and career ready, they can earn competency certificates recognized in the business industry.

Goal--Implemented and ongoing. This project continues to be a successful part of College and Career Readiness.

Training – how technical staff trained and what additional training needed?

The technology department staff are professionally educated/trained in their areas of expertise. As funds are available, staff attend conferences, professional development opportunities, and conference/train with other tech staff in Region 1.

A tech department member maintains Microsoft Instructor Certification credentials. Both techs are involved in Region 1 TIS activities. District technology staff held officer positions in WKATC, KASA, and TIS organizations. As technology continues to change, all tech department staff take the initiative to learn new technologies on their own. Tech staff shares knowledge as opportunities present.

Curriculum and Instructional Integration Goals

Technology is a powerful tool in learning, accessing learning, and administering a school district. Technology tools are available to teach, communicate, provide equitable access to resources, and operate in an efficient fiscally prudent manner. Livingston County School District sees technology as a way to improve our student's future. The district technology department focuses on the education of Livingston County students as consumers of technology; maintains the network, infrastructure, user access, and serves as a support for students/staff.

Instructional Integration combines proven methods of instruction, engagement, and setting of standards to meet standards. The CSIPs and district CDIP list clear goals and specific details regarding how technology will integrate into curriculum and daily instructional practice. It is a goal of this tech plan that the instructional and technical side of education will combine to monitor the progress of intended goals of the CDIP. To maintain open communication, monitor what is and is not working, and adjust accordingly.

For a complete list of all Curriculum and Instructional Integration Goals, see the link:
http://www.livingston.k12.ky.us/docs/2016%20CDIP.pdf

Student Technology Literacy Goals

Goal 1

To adjust district curriculum to include technology literacy for all students

Action Plan: Strategies/Activities for Elementary K-5 Primary

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
All students will be allowed time to have hands-on	Students will become comfortable with	Evidenced by monitoring labs while students are	Ongoing	Teachers and Admins	N/A

computer usage on a regular basis	parts of a computer and how they work	engaged in computer activities			
Students are able to identify specific parts of a computer and their basic function of use	Base knowledge of technical use of Information, Communication, and Productivity	Students will demonstrate how to use a computer to obtain desired information	By end of Grade 5	Teachers and Principal	SBDM or N/A
Assignments that require study of various cultures which differ from the norm	Base knowledge of Safety & Ethical/Social Issues for safe Internet access/use	Students are able to use the Internet in a safe manner; analyze, interpret, and understand, relationships among culturally diverse groups	By end of Grade 5	Teachers and Principal	SBDM or N/A

Curriculum and Instructional Integration Goals:

1. Integrate technology – Teachers integrate technology in their lessons and use it to help with differentiation of instruction.
2. Demonstrate use of appropriate technologies in classroom instruction – Observations of teacher and student use of technology show appropriate use of technology for instruction. Reports analyzed to track use of specific online programs used to enhance/improve student learning.

Student Technology Literacy Goals:

1. To adjust district curriculum to include technology literacy for all students – Teachers promote mastery of technology skills to produce 21st century learners.
2. The district will adjust its instructional program to promote technology literacy – Instruction now fully integrates technology in many different ways to engage students, meet their individual needs, and to increase their acquisition of skills.
3. To remain CIPA, FERPA, and ESSA compliant – All requirements followed and met.
4. Integrate digital citizenship and safe cyber practices into the curriculum – Instruction on digital citizenship and safe cyber practices takes place during each school year with help from the technology department and in library/media classes.

Staff Training/Professional Development Goals:

1. The technology department will provide appropriate technology tools for professional trainings as budget allows – The technology department always works with schools to provide needed trainings as needs identified.
2. All staff will have the opportunity to receive PD training hours within the district – All staff make choices from a variety of PD training sessions offered throughout the year.

Technology Goals:

1. To maintain network/telecommunication infrastructure to facilitate needs of the district for technology instruction/access – The technology department staff work hard to keep all of our equipment up-to-date and operational.
2. The wireless access school-wide has been a welcome addition and has assisted in increasing our use of technology within the instructional day.
3. Many items refreshed according to the plan and even a few may have been ahead of schedule.
4. Support users, FRYSC, 21st CCLC, extracurricular services, community needs, etc. – The technology department is always supportive of all users of technology in an effort to meet the needs with the resources we have available.
5. The Technology Planning Committee will be ongoing to address changes in technology (equipment, mobile devices, hardware, etc.) throughout the lifespan of the Technology Plan. – The committee meets at least annually to discuss priorities and planning.

SES Short-term goals:

- The first priority would be to replace the old student stations in classrooms. We have over 100 desktop computers which fall below KETS standards.
- More wireless devices (iPad minis, additional wireless carts with wireless devices) to assigned to each hallway.
- Replacement schedule for multimedia projectors, document cameras, etc.

SES Long-term goals: We need a building tech person full-time at SLES.

- Additional interactive technology in classrooms.

Budget for 2017-18 Funding Sources: KETS, General Funds, USLD E-Rate Program for Schools and Public Libraries

- SLES uses some SBDM funds for technology as funds become available. We use those funds for multimedia projector bulbs, replacement headphones for the lab and classrooms, software licenses, etc.
- SLES PTO also raises funds to assist in technology purchases and purchased 10 additional iPad minis this year so that we now have 40. We would make similar purchases as funds allow.

NES Technology goals:

- Evaluate age/quality of the existing projectors/sound systems, and peripherals, replace as funding allows.
- Replace older desktop computers in the primary classrooms as funding allows.
- Continue daily scheduled technology presence in the building.
- Evaluate digital citizenship/safe cyber practices models for staff/students.
- Ongoing hands-on training for staff for ease of use with technical equipment/devices related to instruction.

- Explore the feasibility of a TIS/DLC (Technology Integration Specialist/Digital Learning Coach) for additional support of technical integration into instruction.

Action Plan: Strategies/Activities for Middle School 6-8th

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
All students will be allowed time to have hands-on computer usage on a regular basis	Students will become comfortable with parts of a computer and how they work	Evidenced by monitoring labs while students are engaged in computer activities	Ongoing	Teachers and Admins	Tech funds allocated to purchase computers/KETS
Activities which are centered around digital citizenship, safe Internet use	Proficient knowledge of technical use of Information, Communication, and Productivity	Evidenced by ability to complete computer based assignment	By end of Grade 8	Teachers and Principal	N/A
Computer activity either individual/small group which involves Internet research	Proficient knowledge of Safety & Ethical/Social Issues for safe Internet access/use	Evidenced by monitoring students while engaged in computer activity	By end of Grade 8	Teachers and Principal	N/A
Students are asked to engage in technology solutions to solve a real world problem	Proficient knowledge of how to use technology for research, inquiry/problem-solving & innovation	Students use of critical thinking skills, connect knowledge and experiences, while using technology tools to share ideas, solutions.	By end of Grade 8	Teachers and Principal	N/A

Technology needs LCMS:

In addition to the wireless devices on charging carts, we would like to add 5 devices to remain in each classroom (accessibility).

Upgrade the computer lab in room 16, purchase new desktop devices (testing purposes and ease of use).

Add desktop workstations to provide a total 30 student computers in each lab.

Explore a digital citizenship program for students

Action Plan: Strategies/Activities for High School 9-12th

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
All students will be allowed time to have hands-on computer usage on a regular basis	Students will become comfortable with parts of a computer and how they work	Evidence by monitoring students, digital literacy course completion/Grade	Ongoing/by 11th grade	Teachers and Admins	N/A
Students utilize email, cloud based applications and storage to communicate and save data	Proficient knowledge of technical use of Information, Communication, and Productivity	Evidence by monitoring students, digital literacy course completion/Grade	Ongoing/by 11th grade	Teachers and Admins	N/A
Students use Internet/Email in a safe and ethical manner to complete assignments	Proficient knowledge of Safety & Ethical/Social Issues for safe Internet access/use	Evidence by monitoring students, digital literacy course completion/Grade	Ongoing/by 11th grade	Teachers and Admins	N/A

Students use higher level thinking and technology tools to solve a given situation or problem	Proficient knowledge of how to use technology for research, inquiry/problem-solving & innovation	Evidence by monitoring students, digital literacy course completion/Grade	Ongoing/by 11th grade	Teachers and Admins	N/A
Student become knowledgeable digital citizens	Through instruction in the offered: Digital Literacy/ Advanced Computer Course	Evidenced by Lesson Plans	Ongoing/by 11th grade	Teachers and Admins	N/A

Technology needs LCHS:

- Continue to integrated mobile devices into instruction to develop 21st Century Learners
- Pending SIG grant approval, technology requests met
- Continue to utilize web based LMS for credit recovery, advanced placement, RTI, etc.

Student Technology Literacy Goals

Data is gathered from surveys, assessments, observations, CIITS, Infinite Campus (grades/attendance/discipline, etc.), samples of student work, lesson plans, PGES, etc. Data shared with key stakeholders. All literacy goals compare with the activities/strategies and outcomes listed in the CDIP. Various stakeholders evaluate the data and make recommendations to improve results.

In addition to the Literacy Goals for students, all stakeholders:

To become knowledgeable digital citizens who utilize safe cyber practices

As it is important to be a good citizen in the society, it is equally important to teach the same good citizenship standard in a digital world. It is a goal to incorporate digital citizenship into teaching and learning in the classroom, as is developmentally appropriate for students. As students gain knowledge of being good digital citizens, they can incorporate the elements into their computer use. Students will gain confidence in using technology, while learning and exercising safe digital practices. All staff are encouraged be examples of good digital citizens.

Staff Training/Professional Development Goals

State, district, and individual schools, determine Professional Development offerings. Posted and updated: http://www.livingston.kyschools.us/Workshop

Technology Goals

Short term –FY17

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Compare data from Bright Bytes study Year 1 & Year 2	Measureable data to evaluate the level of technology tools, communication, and level of proficiency of students/teachers	Data will demonstrate weakness/strengths in areas of technology tool use, access, instruction, and level of comfortability	June 30, 2017 **COMPLETED**	DTC or designee	N/A Bright Bytes fees are covered by KDE/KETS for participation in 3-year study
Utilize the dense wireless access coverage by engaging in mobile devices	Students/Staff have wireless coverage to utilize mobile devices for instruction	Monitor use (WAP data) and communicate with teachers on use of mobile devices for instruction	June 30, 2017 DTC: Avg. of 1000+ *wireless* connections per day **ONGOING**	DTC or designee, Principals, Admins	N/A
Explore the possibility of expanding mobile device use per classroom/BYOD	Students/Staff have ability to utilize mobile devices for instruction outside the traditional computer labs	Additional use of technology during daily instruction	June 30, 2017 **Revised**	Principals-SBDM **TO BE DETERMINED BY INDIVIDUAL SCHOOL**	KETS/Non-KETS/SBDM

Provide technical support to technologies available for instruction	Expanded use of mobile devices for instruction	Staff/Students learn tech tools to engage and develop new methods of instruction/learning	Ongoing **IMPLEMENTED/ ONGOING**	Technology Staff (facilitates requests: teachers/principals, etc.)	N/A
Provide a second lab (mobile) for SLES	Increase computer to student ratio	Students will have additional opportunities to use computers for learning	December 18, 2016 **Completed Summer 16**	DTC/Principal	General Funds
Explore adding a minimum of **5** mobile devices to each classroom at LCMS	Enable additional computer based activities, enrich, and RTI	Students will have additional opportunities to use computers for learning	December 18, 2016 **ONGOING AS FUNDING ALLOWS**	DTC/Principal/SBDM	SBDM/KETS /General Funds
Keep informed about changing CIPA, FERPA, AUG's, etc.	Compliancy with laws regarding minors	Remain E-rate eligible	Ongoing **Continuous**	DTC/Administration	N/A
Support student STLP program in all schools	Increase in student STLP participation across the district	Students will participate in local, regional, state competitions and mentor from peers	Ongoing **HS STLP qualified for state competition**	Administration/STLP Coordinator and school sponsors	KETS/Donations **Applied for grant for funding**
Replace existing aged laptops in cart at SLES	Provide students with updated mobile device access	Students will utilize mobile devices to enhance instruction	December 1, 2016 **End of life devices replaced, cart utilized**	DTC	SBDM, KETS/Non-KETS

Long term –FY18

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Explore different flavors of mobile devices for education **District has several flavors of mobile devices purchased FY17**	Offer a variety of learning methods to meet outcomes, engagement, etc.	Students utilize various mobile devices for completing assignments	August 31, 2018	Tech staff, Principals or designees **Individual school selects their own devices, etc.**	**SBDM**, KETS, Non-KETS
Expand STLP to all eligible age students	Students benefit from extra projects relating to technology individual/group options	Students able to demonstrate their project and complete in Regional competition at MSU	School Year 2017-18	STLP Coordinator/ Building STLP Leaders	Grants, donations, KETS
Purchase mobile devices-pending funding availability	Increase educational opportunities	Increase ratio of computers to students	Ongoing **300+ mobile devices were purchased F17**	Principals/SDBM, DTC	SBDM, GENERAL/ KETS, Grants, Donations
Initiate a BYOD policy for students	Increase educational opportunities	Students will use personal devices during the instructional day	Ongoing	Administration, Principals/SBDM **District/School decision**	N/A
Students utilize technology to meet accommodations per IEP	Proficient on the use of technology to become independent learners.	Students will demonstrated how to use technology independently to receive accommodations in the form of reader/scribe	Ongoing	Teachers/Admins	SBDM/Other
Preschool classrooms need technology/software	Introduction to technology at an early age	Students will show evidence by use of device(s) via observation	Ongoing	Teachers/Admins	District/Other

for hands-on learning					

Special Education Technology Initiatives:

- Provide assistive/adaptive technology related equipment to meet accommodations

--Need to purchase specialized headphones with built-in mic for use with software (read and scribe)
The number of devices depend on student need per building per IEP.

PRESCHOOL:

- The blended state preschool/Audubon Head Start program in Livingston County Schools works to utilize multiple sources of funding to enhance programming and to offer developmentally appropriate services and practices for our children ages 3 to 5. This year the district applied for and received a Tier 2 Preschool Partnership Grant that offers full day versus half day programming for preschool children and includes our new Daycare, South and North CARES that extends care beyond typical school hours (open 7 a.m. to 6 p.m.); and that extends to the two year old age group.
- However, multiple funding sources still limits incorporating developmentally appropriate practices for technology. Several of our early childhood classrooms lack software, hardware, and peripheral devices that will enable our teachers and young children to learn to use appropriate levels of technology for learning in this technological age. The funding described in this plan will further extend appropriate instructional strategies and appropriate technology to help our children Pre-Kindergarten age to learn from a variety of resources.

Preschool Classrooms Initiatives:

- Provide computer devices and maintain equipment/peripherals for use with early learners
- Evaluate purchase of software/device for ease of use of staff/students (i.e., HatchSync Gold)

FY18

Meet technical aspects of district

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source

Monitor bandwidth usage to meet educational demands of district	Provide optimal connectivity for educational needs	No latency in use	Ongoing **ONGOING**	DTC or designee	N/A
Evaluate refresh cycle of desktop vs mobile device replacement and purchase devices	Provide KETS standard computer devices for staff/student use	Computers will meet specifications for KETS and testing requirements	Ongoing **REVISE PER SCHOOL**	Principals/SBDM	Non-KETS/KETS
Maintain hardware to meet expanding needs of district infrastructure	Provide optimal digital environment for learning	No latency in use	Ongoing **REPLACE SAN FY18**	DTC or designee	KETS/Non-KETS ($30,000+)
Maintain web host	Access to information about district/schools	School related news is accessible via District/School webpage	Ongoing	DTC	KETS +$4,000
Employ district web administrator	Access to information on the web and ease of use	Community, Staff, Students, Parents, have access to school/district news, events, etc.	Ongoing DISTRICT EMPLOYS	Web Administrator	Non-KETS
Annual maintenance support of equipment switches, licensing, etc.	Covers cost of repair, replacement, upgrade charges, firmware, etc.	Network continues to function at optimum levels	Yearly AS FUNDING ALLOWS	DTC	KETS/General
Establish a refresh cycle for projectors, sound systems, etc.	Replace outdated equipment as needed	Expand opportunities for learning with latest technology tools	August FY18 Priority need	Individual School Decision	SBDM, KETS/General

Explore the possibility of hiring a Digital Learning Coach	Support teachers by expanding knowledge/integration of technology tools	Increase use of technology tools for instruction/learning	Ongoing	Individual School Decision	SBDM, GENERAL
Explore the use of central localized network/wireless printing	Expanding printing capabilities	Elimination of local printers, reduction of toner cost	Ongoing	Individual School Decision	SBDM, General
Evaluate need for Smart type classrooms	Expand technology abilities	Increase use of technology for digital learning	Fall 2017	Individual School Decision and Tech Plan Committee	SBDM, Others
Evaluate to replace school phone systems	Consider VOIP	Reduce monthly phone expenses after initial build-out cost	August FY18	DTC/Tech Plan Committee	General

Technology Goals – Evaluation

In order to implement a comprehensive district technology plan for the safe, effective integration of technology; which will provide appropriate guidelines for acquisition, training, and support for staff, students, and the community.

Survey and research the most effective practices for technology integration in district schools.

- Analyze data from Bright Bytes participation results, and compare with year 1 and year 2's data.
  - **Goal--Implemented—Schedule conflict w/testing for year 3 of pilot program with KDE.**

- Recommend Technology Plan be embedded in the Comprehensive District Improvement Plan (CDIP) with feedback from all stakeholders.
  - **Goal--Ongoing—pending further discussion with Tech Plan Committee**
- Provide adequate technology resources to support students, staff, and community.
  - Recommend district continue to allocate funds to offset the limitations of KETS funds
  - Recommend district employ 3 full-time tech positions to meet growing needs of devices
    - **FY17--DTC (with other responsibilities) 250 day contract, tech (with other duties) 240 day contract, and tech assistant at 195 day contract Device count in district has grown exponentially since FY16.**
- Implement ongoing training to reinforce components of digital citizenship, safe Internet use, etc., for staff/students.
  - **DTC will comply with regulations, to be E-Rate eligible, etc.**

- Ongoing training for district employees for expanding options of technical devices to assist with instruction. Individual schools determine what professional development needed for teachers/staff**.** Training to integrate technology into daily instruction preferably performed via certified personnel.

  - **Technology department staff facilitates/maintains technology equipment/devices. Goal-ongoing.**

Budget Summary

Estimate: Technology Annual Budget for 2017-2018

Acquired Technologies and Professional Development	Ed Tech Competitive /Formula Title IID	SIG	E-Rate	NCLB/other than Title IID	*KETS* Estimate w/Bd matching 39,600 total	PD	Other (Specify)
Technology Staff Salaries & Benefits, Mileage, Stipends, Travel, Training, Registration fees, etc.	0	0	0	0	500	0	General Funds 150,000+
Technology items (consumable) or not KETS eligible					0		General 2,500
District Telephone services: Local & LD	0	0	5,322 20% reimbursement	0	0	0	General Funds 26,000+
WAN to 4 buildings (3 schools/Central Ofc)	0	0	86,198.	0	0	0	General Funds 9,743
Classroom Technology & devices for Liv Central High School (one time funds if approved)	0	Applied for 128,000 for LCHS	0	0	0	0	0
Web Hosting Services	0	0	0	0		0	General Funds 4,600
Hardware Maintenance/Service & Support	0	0	0	0	10,000	0	0
Annual Licensing/MS Campus Agreement	0	0	0	0	0	0	General Funds 8,000
District infrastructure SAN upgrade	0	0	0	0	30,000	0	KETS/GENERAL
Online assessment/diagnostic testing	0	0	0	0	0	0	General Funds 18,000
Library digital software Annual Subscription	0	0	0	0	2,500	0	KETS/GENERAL
Replace older (5+ yrs.) desktop wksts	0	0	0	0	58,500	0	KETS/GENERAL
Administrative devices (not SBDM eligible)	0	0	0	0	2,000	0	KETS/GENERAL
Credit Recovery/RTI, IC, etc.	0	0	0	0	0	0	General Funds 17,000
Print Services & Maintenance (Schools/Dist)	0	0	0	0	0	0	SBDM per school/ General 15,530
Consumable Technologies	0	0	0	0	0	0	SBDM per school/General 20,000

Technology/Training Cyber-safety (Safe Schools Best Practices)	0	0	0	0	900	0	0
Assistive/Adaptive Technology for Special Needs Services (Headsets w/special mic, devices, read/scribe software, etc.)	0	0	0	0	0	0	IDEA/GENERAL 1,500
Safety and security systems	0	0	0	0	0	0	General/special funds 25,000
Technology for Preschool Classrooms x5 (devices/software/assistive adaptive tools)	0	0	0	0	0	0	General/Other 19,000
District Library software annual renewal	0	0	0	0	0	0	General/Other 2,500
TOTAL	0	0	$91,520	0	$95,400 -$55,800	0	General Funds

Budget Summary – Narrative

There are three major funding sources to support technology and telecommunications in Livingston County Schools. These funds provide, maintain, repair, support the infrastructure, technology equipment, and district technology positions.

General Funds--School Board approved funds for district needs.

KETS Funds--(Provided by the Kentucky Educational Technology System and matched by our district) to purchase equipment, maintain licensing, upgrade software, etc. The amount of KETS dollars vary annually (allocated on a year-to-year basis) with restrictions.

Universal Schools and Libraries Division of the Federal Communications Commission (USLD aka E-rate) - These funds provide discounts on fiber connectivity services to the district and telecommunications (E-rate will discontinue support of telco/phone services FY18). E-rate qualifications are dependent upon free/reduced lunch Direct Cert percentages at each school.

Other Funding sources:

PD Funding sources are a combination of local and state funding appropriately utilized to offer varied professional development activities to meet the needs of Livingston County Schools.

Each school receives funds from the district to allocate via their Site Based Decision Making Council (SBDM).

Livingston County School District is actively seeking funding from grants. A grant-writing consultant hired FY16, facilitates and assists with grant completion.

Monetary donations from businesses, community, and the Livingston County Education Foundation.

Attachments/Appendices (Optional)

Technology Initiatives completed FY17 relative to the safety of students and staff:

--Upgraded/expanded security camera system at North Elem and Liv Co Middle School

Existing cameras replaced with high definition cameras

Additional cameras purchased expanded the coverage

Replaced NVR with upgraded system

--Adding additional cameras to Liv Central HS security system (Summer 17)

Goal—Enhance safety and security for students and staff

FY18 –explore initiatives

--Upgrade camera system at South Elem to provide continuity throughout the district for the camera systems

--Provide building administrators/district administrators access to security camera systems 24/7 (off campus)

--Install keyless/card access entry at all campuses

Enhanced controlled access after hours

--Purchase mobile hot spot devices for home visits by DPP and Home/Hospital Teacher

--Support Open Campus, Home/Hospital Programs, and Student Information Systems Coordinator with technology needs

--Evaluate moving the notification system to a cloud-based product.