

Technology Plan  
LIVINGSTON COUNTY SCHOOLS  
Smithland, Kentucky



Reaching Excellence Daily  

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LIVINGSTON COUNTY SCHOOLS

<http://www.livingston.kyschools.us>

Creation Date: May 2, 2016  
Plan Start Date: July 1, 2016  
Plan Expiration Date: August 31, 2018

## **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 on-going, 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  
Sheri Henson, Instructional Supervisor  
Pam Garrett, Dir. Special Education  
Melvin Houk, Finance Dir.

#### **LCS Office of Technology:**

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

#### **Principals:**

Scott Gray, Livingston Central High School  
T. Lisa Huddleston, Livingston County Middle School  
Rebecca Dunning, South Livingston Elementary School  
Tad Mott, North Livingston Elementary School

## **Executive Summary**

The district's goal is to facilitate 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 into daily learning and operations of the school system. 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 the new dense wireless coverage available to students/staff (Summer 2016) in all schools, will allow the option of learning via mobile device methods and cloud based applications. The district realizes the importance of digital citizenship and safe cyber practices. It is a goal of this plan in FY17, training/instruction will be offered for all staff and students. 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 equipped with projectors/screens, whiteboards, instructor's desktop computer, and document viewers. Many rooms have additional devices as, smart type systems, iPads, CPS systems, and student computers. Every school has a minimum of one hard-wired computer lab. Many classrooms offer desktop computers for student access. Teachers are offered a variety of training/Professional Development sources to increase their knowledge of technology tools and use.

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

The district has a web site which is updated daily. Individual schools and teachers have their own web pages. In addition, the district utilizes social media (i.e., Facebook, Twitter) and an automated calling system to communicate news/events. Many community events are held at school facilities throughout the year. The schools are interactive parts of the community; not just places of instruction M-F. The district hosts Family Resource Youth Centers (FRYSC) at the schools. Many of the Early Childhood events are held at community facilities (i.e., Livingston County Public Library, Livingston County Extension Office) in addition to the schools.

## 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. All 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 the tech plan. It can be revised by any committee member or stakeholder who would like to edit, change, or add to the live document. Prior to reposting, the revised document will be viewed by committee members and changes approved by the Board of Education Members including the Superintendent. As committee chair, the DTC, or their designee, will review the tech plan to see that goals and intended strategies are completed, are in the progress of completion, or need re-evaluating and the reason(s) for request.

**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 past tech plan was to provide a dense wireless and hard-wired infrastructure to the schools. E-Rate funds were approved to offset the cost of (Approx. \$180,000+) of saturating the district with wireless access. Along with this process, all district switches had to be replaced and upgrading of the VMware server/hardware's memory and operating systems. The architecture will be completed Summer 2016 and readied for the new school year.

A result of evaluating the previous technology showed a need for additional information about various flavors of wireless devices and their ability to function in an educational enterprise. Many didn't realize some devices are limited in their ability to offer functions to multiple age groups.

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

Stakeholders and tech plan committee 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. If the tech department staff increased to three full-time employees, they could meet the growing number of devices (hard-wired/wireless) in the school district and function in a TIS capacity.

## Current Technology and Resources

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

The technology department is housed on the upper level of the high school with staff offices and the district MDF. All servers operate in a virtual environment upgraded (Spring 2016) to meet the growing needs of the technical demands of the district. The district has a combination of hardwired and wireless access in all buildings. The schools are connected via 1 GB fiber internally with a 100 mg pipeline allocated by KDE. There are over 700 Internet accessible devices for students/faculty/staff. District servers are backed-up at an off-site location in case of an unforeseen event.

All schools have digital telephones with access to local/long-distance in every classroom 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 kept 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 and for the number of users and devices, and bandwidth is not an issue. The district has an adequate number of devices which are hardwired desktop Window computers.

Using KETS and Non-KETS funds, all 32bit workstations are being replaced with 64bit and a minimum of 4GB of memory

-Livingston County Schools District was approved for E-Rate funds to allow for dense wireless coverage in all school buildings. FY17, all classrooms, gyms, cafeteria's, offices will have wireless coverage. This would expand the boundaries of instructional activities and allow for BYOD (bring your own device).

-Each classroom is equipped with a projector and a minimum of one instructional device. Many classrooms have Smart type classroom devices. The number of classroom student workstations depend on the individual school and room assignment needs.

-Printers are available via the network and/or local classrooms.

It is a growing need to be able to print via the wireless network. Printers will be replaced as funding allows

-Library services are moved to cloud based applications for ease of access for students and staff.

After the initial year, funding for this cloud based service will need to come from other resources than technology funds

-Although most software is accessed via the Internet, the district still has several programs that operate via the virtual network system. This tends to run slower than utilizing the Internet for a cloud-based version.

-The district covers the cost of licensing for the credit recovery Internet accessed program, the student information system, Munis (financial software) and several of the on-line tests. Other learning based software costs are paid from local school funds. Thus, students in one elementary could have access to software the other elementary students do not.

-Student workstations are replaced on a priority basis as funding permits.

It is a goal to create a three to five-year refresh plan to replace computers/equipment

on a regular cycle. Current desktop Windows based workstations are purchased with a minimum of a three-year warranty. Prior to replacement, the schools will be contacted to see what best meets their changing needs.

**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 approximately 30 workstations (and an instructor's workstation). Student computers in individual classrooms range from 1-5 depending on preference. All libraries are equipped with networked computers. One elementary (SLES) does have a mobile laptop cart with a WAP (wireless access point), which is utilized throughout the building based on need. There are two laptops available for check-out (from the FRYSC) for students who are categorized as homeless.

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

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

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

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

-Students in credit recovery, RTI, etc., have the opportunity for extra computer access during the instructional day and through the after school 21<sup>st</sup> CCLC program. The after school program has their own technology resources, (i.e., carts with iPads, MAC laptops, and wireless printers). They offer tutoring and other technologically advanced opportunities. CCLC has their own funding source for equipment, staff, devices, software, etc. They utilize district facilities, and support from technology staff.

-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 which are recognized in the business industry. For the adults, this opportunity enhances necessary skills for the workforce.

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

The technology department staff are professionally educated/trained in their areas of expertise. Tech staff is allowed to attend an annual conference (budget permitting), have professional development opportunities, conference/train with other tech staff in Region 1. Technology staff are officers in Region 1 WKATC and TIS. Tech staff attends the fall and spring KySTE Conferences to learn from peers and leading experts. Tech staff has the opportunity to gain knowledge via online classes on a variety of technologies.

## **Curriculum and Instructional Integration Goals**

For a complete list of all Curriculum and Instructional Integration Goals see the link below:

<http://www.livingston.k12.ky.us/docs/2016%20CDIP.pdf>

## **Curriculum and Instructional Integration Goals – Evaluation**

Technology is a powerful tool in learning, accessing learning, and administering a school district. Technology will be utilized 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 in the education of Livingston County students as facilitators of technology. The technology department functions in maintaining the network, infrastructure, end user access; and serves as a support for students/staff. The instructional side works to combine proven methods of instruction, engagement, and setting of standards to meet common core standards. The CSIP's and district CDIP list clear goals and specific implementation detailing of how technology will be integrated into curriculum and daily instructional practice. It is a goal of this tech plan and the instructional and technical side of education will combine to monitor the progress of intended goals of the CDIP. To maintain open communication, and monitor what is and isn't working; adjusting accordingly along the way.

## Student Technology Literacy Goals

Link to the Kentucky Core Academic Standards:

[http://education.ky.gov/curriculum/standards/kyacadstand/Documents/Kentucky%20Academic%20Standards\\_Final-9%2011%2015.pdf](http://education.ky.gov/curriculum/standards/kyacadstand/Documents/Kentucky%20Academic%20Standards_Final-9%2011%2015.pdf)

The Kentucky Academic Standards document contains strategies and activities with instructional outcomes, timelines, desired indicators, etc. The strategies/activities below are only examples.

### 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 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
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 which 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 while analyze, interpret, and understand, the relationships among culturally diverse groups	By end of Grade 5	Teachers and Principal	SBDM or N/A

Assignments which require computer use to complete whether individual or small groups	Base knowledge of how to use technology for research, inquiry/problem-solving & innovation	Individuals/groups gain confidence in the ability to use technology for research/problem-solve, etc.	By end of Grade 5	Teachers and Principal	SBDM or N/A
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### Action Plan: Strategies/Activities for Middle School 6-8<sup>th</sup>

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 &	Students use of critical thinking skills, connect knowledge and experiences, while using technology	By end of Grade 8	Teachers and Principal	N/A

	innovation	tools to share ideas, solutions.			
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### 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	Evidenced by monitoring labs while students are engaged in computer activities	Ongoing/by 11 <sup>th</sup> grade	Teachers and Admins	Tech funds allocated to purchase computers/KETS
Students utilize email, cloud based applications and storage to communicate and save data	Proficient knowledge of technical use of Information, Communication, and Productivity	Evidenced by monitoring students working independently w/o need for intervention	Ongoing/by 11 <sup>th</sup> 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	Evidenced by monitoring labs while students are engaged in computer activities	Ongoing/by 11 <sup>th</sup> 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	Evidenced by monitoring students working independently w/o need for intervention and outcome of situation or problem	Ongoing/by 11 <sup>th</sup> grade	Teachers and Admins	N/A

## Student Technology Literacy Goals – Evaluation

Computer classes are offered to all students K-8. An additional teacher is assigned to the elementary schools to ensure technology standards are being taught in grades 4-6. It is the goal of this plan to continue to utilize the teacher in this capacity. Expand the applications and integration of technology; resulting in improved learning, instruction, and the organization of the school climate.

Data is gathered from surveys, assessments, observations, CIITS, Infinite Campus (grades/attendance/discipline, etc.), samples of student work, lesson plans, PGES, etc. Data is shared with key stakeholders. All the literacy goals are compared 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, the district would like to have 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. It is a goal to incorporate the 9 elements of digital citizenship into daily instruction.



Various activities can be utilized to incorporate these components into daily instruction. As students can knowledge of being good digital citizens, they can incorporate the elements into their computer use. It is a goal to offer a form of digital citizenship reward for students who complete the program, ie., allowing them additional Internet use. Students will gain confidence in using technology, while learning and exercising safe digital practices. It is encouraged that all staff utilize the same Nine Themes of Digital Citizenship.

## Staff Training/Professional Development Goals

### Goal 1

All staff will have the opportunity to receive professional development training within the district

#### Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Bloodborne Pathogens/Medication Assistance	Staff meet state requirements	District compliancy	Annually	Instructional Supervisor/Principals	PD/General
Bus Driver Training	Bus Drivers meet state requirements	District compliancy	Annually	Transportation Director	Transportation/PD
Suicide Training	Staff meet state requirements	District compliancy	Annually	Instructional Supervisor/Designee	PD/General
Restraint/Seclusion and CPI	Staff meet state requirements	District compliancy	Annually	Instructional Supervisor/Designee	PD/General
Professional Development opportunities throughout the year (school building specific, local, and out-of-district)	Staff will meet required number of professional development hours	District/Employee compliancy	Annually	Instructional Supervisor/Designee	PD

### Goal 2

#### Action Plan: Strategies/Activities

Ongoing technology staff training for staff

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
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Explore Offering training in Office 365, One Drive, and Skype	Staff gain knowledge they can share with peers and students	Staff become confident in use of Office 365	Start fall 2016	DTC/Tech Staff	N/A or PD
Offer staff training opportunity in digital citizenship/cyber safety	Staff gain knowledge of safe Internet use and practices	Staff become aware of potential threats via email, websites, etc., preempting an attack	Start fall 2016	DTC	KETS/PD

### **Staff Training/Professional Development Goals – Evaluation**

Among the Instructional Supervisor’s duties, are to gather feedback from the school’s (recommendations of the principal/SBDM/Teachers) along with state requirements, to establish professional development opportunities for teachers and staff. The Instructional Supervisor contacts the DTC to facilitate the technology resource needs per PD. For a list of professional development offerings throughout the year, visit <http://www.livingston.kyschools.us>. These listings change frequently.

## Technology Goals

### Goal 1

#### Short term –first year of plan

#### Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Compare data from Brightbytes 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	DTC or designee	N/A Brightbytes 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 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	Principals-SBDM	KETS/Non-KETS/SBDM
Provide technical assistance to utilize mobile technologies available for	Expanded use of mobile devices for instruction	Staff/Students learn tech tools to engage and develop new methods of	Ongoing	Technology Staff	N/A

instruction		instruction/learning			
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	DTC/Principal	General Funds
Explore adding a minimum of 2 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	DTC/Principal/SBDB	KETS/General Funds
Keep informed about changing CIPA, FERPA, AUG's, etc.	Compliance with laws regarding minors	Remain E-rate eligible	Ongoing	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	Administration/STLP Coordinator and school sponsors	KETS/Non-KETS, Donations
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	DTC	KETS/Non-KETS

**Goal 2**

**Long term –second year of plan**

**Action Plan: Strategies/Activities**

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Explore different	Offer a variety of	Students utilize	August 31, 2018	Tech staff,	KETS, Non-KETS

flavors of mobile devices for education	learning methods to meet outcomes, engagement, etc.	various mobile devices for completing assignments		Principals or designees	
Purchase mobile devices-pending funding availability	Increase educational opportunities	Increase ratio of computers to students	Ongoing	Principals/SDBM, DTC	KETS/Non-KETS/SBDM
Initiate a BYOD policy for students	Increase educational opportunities	Students will use personal devices during the instructional day	Ongoing	Administration, Principals/SBDM	N/A

### Goal 3

#### 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	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	Tech Plan Committee/DTC /Principals/SBDM	KETS/Non-KETS
Maintain hardware to meet expanding needs of district infrastructure	Provide optimal digital environment for learning	No latency in use	Ongoing	DTC or designee	KETS/Non-KETS
Maintain web host	Access to	School related news	Ongoing	DTC	KETS

via annual fee	information about district/schools	is accessible via District/School webpage			
Employ district web administrator to maintain and assist with hosted web pages	Access to information on the web and ease of use	Community, Staff, Students, Parents, have access to school/district news, events, etc.	Ongoing	Web Administrator	Non-KETS Stipend
Continue 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	DTC	KETS
Establish a refresh cycle for projectors, sound systems, etc.	Replace outdated equipment as needed	Expand opportunities for learning with latest technology tools	January 1, 2017	DTC/Tech Plan Committee	KETS/Non-KETS
Explore the possibility of hiring a full-time TIS	Support teachers/staff with technology opportunities by expanding knowledge/ease of use	Increase in use of technology tools for instruction/learning	Ongoing	Superintendent	General
Explore the use of central localized network/wireless printing	Expanding printing capabilities	Elimination of local printers, reduction of toner cost	Ongoing	Tech Plan Committee	KETS/Non-KETS
Evaluate need for Smart type classrooms	Expand technology abilities	Increase use of technology for digital learning	Fall 2017	Tech Plan Committee	KETS/Non-KETS
Evaluate need to replace school	Consider VOIP	Reduce monthly phone expenses	By end of Plan	Tech Plan Committee	Non-KETS

phone system		after initial build-out cost			
Assist staff with use of mobile devices	Expand technology use	Users gain knowledge and confidence using new technologies	Ongoing	Tech Staff	N/A

## 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. The following steps will be taken:

- 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.
- Recommend Technology Plan be embedded in the Comprehensive District Improvement Plan (CDIP) with feedback from all stakeholders.
  - Combining documents provide access to CDIP and Tech Plan to corroborate common district goals.
- 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
- Implement ongoing training to reinforce components of digital citizenship, safe Internet use, etc., for staff/students.
  - DTC will work with administration to meet appropriate needs of students per grade/age level, and staff (for House Bill(s)/Senate Bill(s), E-Rate compliancy.
- Utilize Professional Growth Plans of district employees to determine professional development needs, and then provide that training for district employees to equip them with the knowledge of ways to integrate technology into their instruction.
  - Technology department will coordinate with Principals to customize to their individual preferences/needs.
- Evaluate the District Technology plan annually, based upon evaluation data, research, and committee review.
  - DTC will complete annual evaluation of plan and present to committee for input/feedback.
- Ongoing training for district employees for expanding options of technical devices to assist with instruction.
  - Technology department staff will work with Professional Development Coordinator and/or Principals for a preferred time frame.

The Technology Committee will review these steps to evaluate their implementation, revising the plan as needed.

## Budget Summary

### Estimate: Technology Annual Budget for 2016-2017

Acquired Technologies and Professional Development	Ed Tech Competitive /Formula Title IID	SIG	E-Rate	NCLB/other than Title IID	KETS	PD	Other (Specify)
Technology Staff Salaries & Benefits, Mileage, Stipends, Travel	0	0	0	0	5,000	0	General Funds 150,000+
District Telco Local & LD	0	0	12,750	0	0	0	General Funds 13,000+
Fiber WAN	0	0	86,346	0	0	0	General Funds 9,994
Smart Classroom Technology & Mobile devices for Liv Central High School (one time funds)	0	40,000	0	0	0	0	0
Web Hosting Services	0	0	0	0	4,500	0	0
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 8,400
On-line testing cost	0	0	0	0	0	0	General Funds 18,000
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 Related PD/Training Cyber-safety	0	0	0	0	1000	200	0
Other approved technologies: (Replace: computers, projectors, mobile devices)	0	0	0	0	28,000	0	General Funds 50,000
<b>TOTAL</b>	0	0	\$99,096	0	\$48,500	\$200	General Funds \$301,924

Budget for second year 2017-2018 will be added when determined.

## Budget Summary – Narrative

There are three major funding sources which support technology, telecommunications, and professional development, in Livingston County Schools. It is through these funds we are able to provide, maintain, repair, and support the infrastructure, technology equipment, and district technology staff.

General Funds- These are local district funds allocated by the school board to support the integration of technology into the school's curricula and purchase needed equipment.

KETS Funds- These are funds provided by the Kentucky Educational Technology System (and matched by our district) to purchase equipment, maintain licensing, upgrade software, etc. It cannot be used for consumable items.

Universal Schools and Libraries Division of the Federal Communications Commission (USLD/E-rate) - These funds provide discounts on telecommunications, and fiber connectivity services to the district. USLD no longer funds web-hosting service to the district. That service is now paid via KETS funds. USLD funds are dependent upon free/reduced lunch Direct Cert percentages at each school facility. USLD is decreasing funding for telco (voice/phone) service over the next 2 years with the funding ending FY 2018.

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 is given funds to be allocated by their Site Based Decision Making Council (SBDM). Those funds are limited by the overall district budget from all sources.

Livingston County School District is actively seeking funding from grants.

Monetary donations from local companies.

In FY16, a Grant Writing Consultant was hired (part-time) to facilitate and assist with grant completion. This person works with staff and principals to meet district needs for competition of grant writing process for submission.

**Attachments/Appendices (Optional)**