

# DISTRICT TECHNOLOGY PLAN

**DISTRICT NAME** Bullitt County Public Schools

**LOCATION** Shepherdsville, KY

**PLAN YEAR(S)** 2019-2020



[www.bullittschools.org](http://www.bullittschools.org)

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## Planning Team

<b>District Staff</b> [Recommended to include CIO/DTC, TIS/DLC, technician, finance officer, superintendent, academic officer, etc.]	
Jim Jackson -DTC/CIO	Amy Cuenca - TIS/DLC
Andrew Hobbs - Network Engineer	Kali Ervin - TIS/DLC
Christie Turbeville - TIS/DLC	Adrienne Usher - Assistant Superintendent for Instruction
Danita Cobble - TIS/DLC	Becky Sexton - Assistant Superintendent for Support Services
Keith Barnes - TIS/DLC	
<b>Building Staff</b> [Recommended to included principals, LMS, STC, counselors, teachers, teaching assistants, etc.]	
Bryan Flachbart- Principal Cedar Grove Elementary	
Katie Stephens - Principal Bernheim Middle	
Joni Britt - Principal North Bullitt High School	
Kellie Davis - Bullitt East High Media Specialist	
<b>Additional District Contributors</b> [Recommended to include board members, SBDM members, program directors, etc.]	
Mary Faulhaber -Special Ed	Sheri Hamilton - Elementary Director
Rachelle Bramlage-Schomberg Secondary Director	Sarah Smith - School Safety Coordinator
<b>Students</b> [Recommended to include middle and/or high school students ]	
<b>Other</b> [parents/community members, business and nonprofit leaders, etc. ]	

## Previous Plan Evaluation

In this section include a discussion of the “expiring” (*previous year’s*) plan using the prompts below. Attempt to limit your narrative to the space provided.

During 2018-2019 Bullitt County Public Schools met the following goals of our plan

- Curriculum and Instructional Goal #1
- Student Technology Literacy Goal #1
- Staff Training/Professional Development Goal #2 (Job-embedded DLC)
- Technology Goals Goal #1

The following goals were not met

- Staff Training/Professional Development Goal #1 (School Tech Plans)
- Technology Goals Goal #2 (Communication)

We have identified the following areas where improvements are needed

- School technology plans (Staff Training/PD Goal #1)
- School/parent communication (Technology Goals Goal #2)

The following areas/goals were identified as no longer being relevant:

- School Technology Plans (Staff Training/PD Goal #1) - Schools are no longer required to develop their own technology plans

The following needs that emerged after evaluation of the previous plan are:

- Consistent parent/school communication tool district-wide
- Need for additional Technology Integration Specialists (Digital Learning Coaches)
- Individual School Funding Plan for Technology Equity
- Designated School Technology Coordinators (STC)/Access 24 Coordinators at each building and support for STC/Access 24 Coordinators (to ensure proper deployment, maintenance, management, etc. at the school level)
- Consistency of program offerings across the district (robotics, game design, STEM/STEAM, Virtual Reality (VR), Artificial Intelligence (AI), etc.)
- Technology alone is not meeting the needs of our ELL students
- Replacement of aging classroom equipment district-wide
- Audio enhancement systems are a need across the district (especially in MS and HS)
- Advanced equipment to support career-ready goals at the Area Technology Center (ATC) and Riverview Opportunity Center

## New Plan Preview

This is a high-level overview or executive summary of the plan as a whole. Attempt to limit your narrative to the space provided below.

[See [Technology Planning section of KETS Master Plan](#) for more information]

The mission/vision of the Bullitt County Technology Department is to provide the most effective and efficient information systems possible to empower the students, faculty, and staff to help meet our goals as a learning community.

In order for students to gain technological competencies and to be contributing citizens in an evolving digital society, they must receive an education that incorporates technology literacy at all levels as shown in the strategies listed below. Using teaching and learning standards as a foundational basis, all Bullitt County Public Schools technology learning goals and strategies describe activities that support academic achievement. This academic achievement shows our focus on college and career pathways. Students will be immersed in authentic, engaging instructional practices, and project-based technologies that align with their college and career focus. Engagement in the curriculum at all levels is enhanced when instructional technology is routinely incorporated into daily lessons.

This technology plan was developed through a committee process involving stakeholders from across the district. Members of the Technology Department, including the CIO, LAN/WAN Engineer, Assistant Superintendents, and Technology Integration Specialists (TIS/DLC) gathered information to formulate this plan. Members of Central Office staff, the Special Education Department, and a representative group of principals, teachers, library media specialists. Feedback was considered and added as appropriate. The plan will be evaluated and measured against the goals stated within to ensure successful implementation. This plan is reviewed and revised on an annual basis.

To achieve the goals and strategies outlined in this plan, educators must have varied opportunities for ongoing and continuous training in the integration of technology tools to ensure equity of learning and access for all. In order for teachers to keep pace with the digital natives within an ever-changing digital society, they must seamlessly implement technology into their daily instructional practices. The BCPS strategies describe activities that improve the capacity of all teachers in the schools served by the district to integrate technology effectively into curriculum and instruction.

In accordance to the Kentucky Academic Standards and ISTE Standards, our strategies for BCPS students and teachers will foster a community of technology-rich citizenry. Throughout the implementation of this district technology plan, the Technology Integration Specialists will provide teachers with technical and curriculum support, fostering a technology-rich learning environment. They will utilize the technologies the teacher is currently accustomed to while looking for integration points and promoting the teachers' rationale and reflection about future technology implementation practices. Various strategies and activities that the TIS/DLC team will support throughout this integration process will help move staff members to a higher performance level (as measured by Certified Evaluation Plans) and students to technological

proficiency.

## Student Voice

Personalized student learning allows students to develop deeper learning competencies including critical thinking, using knowledge and information to solve complex problems, collaboration, and communication. Capturing student input about their access to opportunities that build these competencies is key to effective technology planning. Please answer the questions in the space provided below.

We currently use Google Forms for all district surveys. We ask ELA teachers in middle school to distribute our surveys to their classes. For high school students, we distribute surveys by asking ELA and Social Studies teachers to include in their Google Classrooms as well as school grade-level Google Classrooms. In addition, we send surveys directly to the students to capture their input on our recent strategic planning process for the district.

*We created a survey and distributed to middle school and high school students to gauge their usage of Chromebooks, home WiFi access, breakage and interests in purchasing the device after graduation. The results of this survey can be seen at this link. ([LINK TO RESULTS](#))*

We plan to increase our efforts to involve student participation in surveys and other forums where their voices can be heard to drive the future decisions we make regarding technology.

## **KETS Master Plan Areas of Emphasis**

### **Connected to the Future Ready Framework**

The Future Ready Framework identifies seven Gears to assist districts in developing a roadmap for student success through personalized student learning and collaborative leadership. The KETS Master Plan has identified 37 Areas of Emphasis connected to the Future Ready Framework and are categorized as either *1) Areas of Acceleration (AA)* or *2) Areas of Improvement (AI)*. The “areas of acceleration” are considered big wins, successes, and major milestones of the KETS are identified for continuation work. The “areas of improvement” address emerging areas based upon growth or decline metrics, research, needs assessments, and reporting by Kentucky school districts.

Use the Areas of Emphasis and Future Ready Framework as a lens to analyze current trends, initiatives, needs and goals of your district. Link the work of this new plan identified by your planning team to the Gears and Areas of Emphasis of the KETS Master Plan on the following pages. There is no expectation to address all 37 Areas of Emphasis of the KETS Master Plan. Any strategy that involves Erate, please include in the Budget & Resources gear. If your district has lease agreements (i.e.; device, fiber, etc.), be prepared to reference the quantity during the final submission process.









## Robust Infrastructure & Ecosystem








Future Ready Gear

**KETS GUIDING PRINCIPLE** – A robust infrastructure is one that delivers the device, network and support needs of staff and students to create personalized learning environments using digital tools and resources.








Areas of Emphasis: Areas of Acceleration (AA)  / Areas of Improvement (AI) 

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA1 	Provide high-speed fiber access with a minimum of 10 GB connectivity to all district schools.	District CIO, LG Fiber	Completed 2006	General Fund	\$26,400.00	<ul style="list-style-type: none"> <li>• Reduced downtime</li> <li>• Quick repairs of reported network outages</li> <li>• Adequate bandwidth for internet usage</li> </ul>
AA2 	Provide 1GB bandwidth to Nichols Elementary and Spring Meadows Children's Home	CIO, Spectrum Business	Continuation	General Fund, Erate	\$4,000.00	<ul style="list-style-type: none"> <li>• Reduced downtime</li> <li>• Adequate bandwidth for internet usage</li> </ul>
AA3 	Provide high-speed Wireless Access to all district facilities	CIO, Network Engineer, Extreme, STEP CG	Continuation	General Fund, Erate, KETS	\$144,224.64	<ul style="list-style-type: none"> <li>• Reduced work order for wireless issues</li> </ul>
AA4 	Maintain wired network infrastructure to support all facets of district needs, including desktop access, printing, security, voice, and other essential services for students, teachers, and administrative needs.	CIO, Network Engineer	Continuation	General Fund, Erate	\$5,000.00 \$62,308.00	<ul style="list-style-type: none"> <li>• Reduced network downtime</li> <li>• Reduced network related work orders</li> </ul>








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AA4 	Continued installation of interactive TV's for interactive learning. Providing more flexibility and ease of use for students and teachers.	CIO	Continuation	Fund I Fund II	\$25,000.00	<ul style="list-style-type: none"> <li>Evaluation by classroom observations</li> </ul>
AA5 	Provide and maintain Chromebooks for 6th-12th grade students as part 1:1 initiative (Access 24)	CIO,	October 2019	General fund, KETS	\$477,622.09	<ul style="list-style-type: none"> <li>Purchase Orders and Lease Agreements</li> </ul>
AA6 	Support the use of G-Suite for anytime/anywhere access to the storage of files.	CIO, Technology Staff, TIS/DLC	Continuation	N/A	N/A	<ul style="list-style-type: none"> <li>Increased usage of Google Suite across ALL stakeholders</li> </ul>
AA7 	Continue to support Equitrac software to reduce printing costs and reduce paper usage	CIO, ProSource, Network Administrator	Continuation	General Fund	\$18796.18	<ul style="list-style-type: none"> <li>Reduce consumable cost as reflected in the Technology Activity Report (TAR)</li> </ul>
AA8 	Continue to support copiers and network based printing.	CIO, ProSource, Network Administrator	Continuation	General Fund	\$215,815.28	<ul style="list-style-type: none"> <li>Staff satisfaction</li> <li>Reduced printing costs</li> </ul>
AA9 	Continue to seek services that provide cloud based access and are fully functional on Chromebooks	CIO, Technology Staff	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>Reduction of software that must be installed on local servers</li> </ul>
AA10 	Continue to provide and support GoGuardian software for increased control over student devices during class, and increasing teacher/student collaboration	CIO, TIS/DLC	Continuation from 2018-19	General fund Chromebook fees	\$21,000.00	<ul style="list-style-type: none"> <li>Teacher satisfaction surveys</li> <li>Observation of usage</li> <li>GoGuardian Reporting</li> </ul>







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AA11 	Microsoft Office EES agreement	CIO	6/30/20	General Fund	\$65,000.00	<ul style="list-style-type: none"> <li>• Access to desktop computers and other Microsoft products used by the district</li> </ul>
AA12 	Maintain district Student Information System (Infinite Campus)	CIO	6/30/20	General Fund	\$88,000.00	<ul style="list-style-type: none"> <li>• Accessibility to district student information for all teachers and administrative staff</li> </ul>
AA13 	Maintain district website software and APP	CIO	6/30/20	General Fund	\$10,500.00	<ul style="list-style-type: none"> <li>• Ease of use for district webmasters and increased presence for parents and the community</li> </ul>
AA14 	Maintain agreement with Tyler Technologies (MUNIS) for financial system software and support	CIO Lisa Lewis	6/30/20	General Fund	\$42,000.00	<ul style="list-style-type: none"> <li>• PO</li> <li>• Usage of the software</li> </ul>
AA15 	Maintain agreement with Infinite Campus and Shoutpoint for School Messenger	CIO	6/30/20	General Fund	\$6,500.00	<ul style="list-style-type: none"> <li>• PO</li> <li>• Use of the system</li> </ul>
AA16 	Support for STLP programs for the district, with travel and supplies	CIO	6/30/20	General Fund	\$4,500.00	<ul style="list-style-type: none"> <li>• PO's</li> <li>• Increased participation</li> </ul>
AA17 	Maintenance related items for fiber, pole rental, Datacenter UPS and AC emergency pole repairs, telephone maintenance and computer repairs	CIO	6/30/20	General Fund	\$71,780.00	<ul style="list-style-type: none"> <li>• PO's</li> <li>• Uptime for all critical services</li> </ul>

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AI1 	Add network drops when and where necessary to support instructional needs.	CIO, network team, Business Cabling	As needs arise	General Fund	\$10,000.00	<ul style="list-style-type: none"> <li>Through work order requests</li> </ul>
AI2 	Upgrade existing devices or incorporate mobile devices to modernize student and teacher devices.	CIO	Throughout the year 2019-2020	General Fund, KETS funds	\$150,000.00	<ul style="list-style-type: none"> <li>Evaluation of devices through the annual KDE Digital Readiness survey.</li> </ul>
AI3 	Reduce the need for desktop computer labs	CIO, Technical staff	Throughout the year 2019-2020	General Fund, KETS funds	\$100,000.00	<ul style="list-style-type: none"> <li>Increase number of students in a 1:1 environment</li> </ul>
AI4 	Replace aging projectors and interactive whiteboards	CIO, Technical staff	Throughout the year 2019-2020	General Fund, KETS funds	\$81,000.00	<ul style="list-style-type: none"> <li>Tracking PO's to evaluate the number of devices purchased, and by usage observations</li> </ul>
AI5 	Replace aging switches and network infrastructure at our data center and district schools to provide increased backbone connectivity and reliability.	CIO/DTC, LAN/WAN Engineer	6/2018	District Funds, E-rate	\$45,000.00 \$115,200.00	<ul style="list-style-type: none"> <li>Improve speed, connectivity, reliability, less delay in loading, and increase productivity.</li> </ul>
AI6 *  * Revised and added 9/23/19	Replace 10 year old core telephone system, software and handsets.	CIO/DTC Telephone Technician LAN/WAN Engineer	11/1/2019	General Fund	\$103,238.61	<ul style="list-style-type: none"> <li>Improved reliability of voice communications and faxing capabilities</li> <li>Reduce phone lines cost</li> <li>Improved web interface for district maintenance</li> <li>System costs offset by reduced maintenance expenses and phone line disconnections</li> </ul>
AI7 	Move all district user data storage to Google Drive	CIO, Network Administrator	September 2019	N/A	0	<ul style="list-style-type: none"> <li>Decommission of SAN storage</li> </ul>

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	cloud based storage, so district can decommission and replace aging SAN	TIS/DLC				<ul style="list-style-type: none"> <li>• Make storage accessible for all stakeholders</li> </ul>
AI8 	Continue to evaluate current digital tools and explore new tools that will help teachers teach and students learn.	CIO, TIS/DLC, District Technology Staff	All year	General Fund	\$5,000.00	<ul style="list-style-type: none"> <li>• Learning Plans</li> <li>• Observations</li> <li>• Provide Technology to meet the learning styles of students.</li> </ul>
AI9 	Continue to provide students and teachers with technical support for devices used for instruction	CIO, TIS, District Technology Staff	All Year	General Fund	\$672,907.87	<ul style="list-style-type: none"> <li>• Work Order Reports</li> <li>• Student and Teacher Surveys</li> </ul>
AI10 	New technology hardware and software is fully integrated into instructional practices and used regularly to meet learning goals.	CIO/DTC, TIS, Administrators, Instructional Staff	Continuation	District Funds, and SBDM funds	N/A	<ul style="list-style-type: none"> <li>• Professional Development</li> <li>• Attendance</li> <li>• Usage Reports</li> <li>• Professional Observation</li> <li>• DLC Reports</li> </ul>
AI11 	Continuing upgrade of voice enhancement to Shepherdsville Elem and adding systems to Freedom Elem	CIO	6/30/20	District Funds	\$36,000.00	<ul style="list-style-type: none"> <li>• Improved learning environment for all students, especially those with hearing difficulties</li> <li>• Reduced stress on teachers voices</li> </ul>
AI12 	Repairs for district computer hard drives, cables, memory etc.	CIO	Continuation	General Fund	\$15,000.0	<ul style="list-style-type: none"> <li>• PO's</li> <li>• Work Orders</li> </ul>
AI13 	Replacement of end of life servers and district technician workstations	CIO	6/30/20	General Fund KETS	\$14,000.00	<ul style="list-style-type: none"> <li>• PO's</li> <li>• Reduced failures</li> <li>• Increased performance</li> </ul>











## Data Security, Safety & Privacy

Future Ready Gear






**KETS GUIDING PRINCIPLE** – Security, safety and privacy of student data is a cornerstone of digital learning. Policies and procedures are enacted at the state, district and school levels that work in conjunction for this purpose. Student data are then utilized by data fluent educators for improved decision-making leading to increased learning for students.

Areas of Emphasis: Areas of Acceleration (AA)  / Areas of Improvement (AI) 

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA1 	Scan district network to monitor and locate vulnerabilities that need to be addressed, maintain software licensing for analysis.	DTC/CIO	Throughout School Year	General Fund	\$10,000.00	<ul style="list-style-type: none"> <li>Reporting that will show our current vulnerabilities, and comparing to baseline reports.</li> </ul>
AA3 	Continue offering password safety and email safety as part of the district required PD through Safe Schools.	DTC/CIO Safe Schools Coordinator	By the end of August, and ongoing for new employees	N/A	N/A	<ul style="list-style-type: none"> <li>Completion of training through Safe Schools site.</li> </ul>
AA4 	Maintain and improve vendor level agreements for student data security. Require more documentation from all software requests to ensure data privacy is addressed	DTC/CIO	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>List of vendors will be produced with meaningful data, so enforcement can be made to hold vendors accountable for a loss.</li> </ul>




KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA5 	Continue to collecting information on who has access to sensitive data, we will be in a better position to train those users on proper procedures for data security practices.	DTC/CIO and DLC	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>• Audits of systems, showing user access rights.</li> <li>• Reviewing access rights</li> </ul>
AA6 	Continue implementation and support district level structuring visitor scanning software and notification system.	School Safety Coordinator and DTC/CIO	Continuation	SBDM Safe School KETS	10,000.00	<ul style="list-style-type: none"> <li>• School visitor logs</li> </ul>
AI1 	Upgrade or remove all desktops and laptops with OS software older than Windows 10. Upgrade or remove servers with OS levels below Windows 2016	DTC/CIO	2020 SY	KETS, SBDM, General Fund	\$250,000.00	<ul style="list-style-type: none"> <li>• Reports from network scanning software will show a reduced number of vulnerabilities as compared to the baseline scan.</li> </ul>
AI2 	Seek software to streamline and automate the onboarding and termination process.	LAN/WAN Engineer	Continuation	General Fund	0	<ul style="list-style-type: none"> <li>• Continue developing automated processes to reduce human errors with user account management</li> </ul>
AI3 	Develop a Change management protocol for changes to network and software changes	DTC/CIO and staff	2020 SY	General Fund	\$1,000.00	<ul style="list-style-type: none"> <li>• Fully functional, living, breathing document with details of changes that are made to network and data systems.</li> </ul>

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KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AI4 	Seek vendors that can supplement our own scanning, and to help develop and refine existing procedures	DTC/CIO LAN/WAN Engineer	Continuation	General Fund	\$5,000.00	<ul style="list-style-type: none"> <li>Discovery and selection of vendor partner that can provide the needed resources</li> <li>Continue to work with vendors to test vulnerabilities with phishing and other threats to compromised user accounts</li> </ul>
AI5 	By providing Digital Citizenship trainings, internet filtering, enforcing appropriate use and continuing to restrict inappropriate material under CIPA, we are encouraging students to become responsible internet users.	DTC/CIO, School Technology Coordinator School Administration, DLC, LMS/STC	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>Customized Internet reporting tools distributed to all school STC's and Principals for monitoring of their school's internet activity, TIS job-embedded PD on safe searching.</li> </ul>
AI6 	Provide Internet filtering to maintain compliance with the Children's Internet Protection Act (CIPA).	CIO/, School Safety Coordinator s District admins	Continuation	KDE Shared Services	0	<ul style="list-style-type: none"> <li>Logs of access control system and observation</li> </ul>
AI7 	Install video cameras and hardware peripherals to allow school staff to monitor school premises in order to maintain school safety	CIO, Tech staff, School safety/district administration	Continuation / Completed in some areas.	KETS, Capital Outlay, District Funds, Grant Funds	\$45,000.00	<ul style="list-style-type: none"> <li>Incident reports and observation</li> </ul>
AI8 	Maintain software for security cameras and access control systems	CIO	Continuation	General Fund	\$34,500.00	<ul style="list-style-type: none"> <li>PO's</li> <li>Continued use of systems for maintaining school safety</li> </ul>



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KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AI9 	Install emergency call buttons to alert police to intruders ensuring the safety of students and staff.	CIO/, School safety/admins	Continuation / Completed	Local Funds, Grant Funds	\$2,500.00	<ul style="list-style-type: none"> <li>Incident reports and observation</li> </ul>
AI10 	In order to reduce the number of staff with access to data and sensitive equipment, we will limit access, and collect all passwords in the cloud-based security system.	DTC/CIO LAN/WAN Engineer	Continuation	General Fund	0	<ul style="list-style-type: none"> <li>Access to only authorized users</li> <li>Data security through our LAN/WAN Engineer protocols</li> </ul>
AI11 	Support and train schools on the proper use of district silent notification system, and seek new ideas for emerging technology for safety.  Provide documentation and videos to train personnel on how to properly use the silent alarm system.	School Safety Coordinator and DTC/CIO	Continuation	General Fund	0	<ul style="list-style-type: none"> <li>Alarms are used effectively.</li> <li>School personnel sign-off on training with the School Safety Coordinator.</li> </ul>



## Budget & Resources

Future Ready Gear

**KETS GUIDING PRINCIPLE** – The Master Plan, as well as district and school technology plans, are aligned to the vision of 21st century skills for students and staff. Revenue streams are aligned to account for the recurring and nonrecurring total cost of ownership to support the 21st century learning environment in a manner that reflects good stewardship of tax dollars to include devices, infrastructure, support, data and human services.

Areas of Emphasis: Areas of Acceleration (AA)  / Areas of Improvement (AI) 



**AA-1:** Continue to maximize local and state education technology expenditures through a system of shared/brokered/managed services



**AA-2:** Continue use of long-term planning strategies that allow for continuity of initiatives and systems (*ex. Accounting for cost of ownership over the lifespan of equipment so monies are allocated for repairs/upgrades*)



**AA-3:** Continue to leverage all available state and federal funding opportunities to address required basic cost of living increases, previous budget cuts of basic services, projected growth by districts (*e.g. Internet consumption*) while maximizing education technology programs and initiatives (*Technology Need, E-rate*)



**AI-1:** Make districts aware of position/roles requiring technology-related duties in support of technology and instruction (*The People side of K-12 EdTech*)



**AI-2:** Make districts aware of how to reduce expenditures on printing/print services (*both in consolidated contract pricing as well as shifting from paper to digital experiences*)





**AI-3:** Evaluate the need and explore new contracts that drive costs down for statewide summative online assessment, learning management systems, printing services and interim based assessments



**AI-4:** See an increased percentage of districts examining which education technology investments are or are not being maximized

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KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA 	Budgetary figures for this plan are included in the "Anticipated Funding Amount" column of this document.	Superintendent CIO Director of Finance	6/30/2020	Indicated above	Indicated above	See above
AI 	Implementation of data dashboard to improve data quality and provide better data for academic decisions	Assistant Superintendent for Student Learning CIO	Continuation	General Fund	\$150,000.00	<ul style="list-style-type: none"> <li>• Reporting</li> <li>• Usage by principals</li> </ul>



## Partnerships

Future Ready Gear

**KETS GUIDING PRINCIPLE** – Connecting students and educators to the local and global community is a key factor to student success. The Master Plan will continue to provide opportunities for trusted relationships to build those connections as well as increase communication and transparency with shareholders, including families, districts, vendors, regional education collaboratives, postsecondary institutions and business/industry, in support of student learning and preparation beyond K-12.

Areas of Emphasis: Areas of Acceleration (AA)  /Areas of Improvement (AI) 



**AA-1:** Continue to build trusted relationships with shareholders (families, districts, partners) that will reduce risk as well as increase transparency and communication (*districts, vendors, higher-education, regional cooperatives*)



**AA-2:** Continue to utilize avenues of communication with shareholders allowing pertinent information and dialog to further student learning efforts (*Webcasts, BrightBytes, Technology Activity Report, KETS Service Desk, Office of Education Accountability studies, independent studies, etc.*)



**AA-3:** Continue to utilize tools engaging postsecondary institutions, community members, districts and families in student learning and life after K-12 (*eTranscripts, School Report Card and Dashboard tool, Infinite Campus parent and student portal, KDE Open House, Digital Readiness Survey*)



**AI-1:** Partner with postsecondary pre-service teacher and principal programs to provide support in candidate preparation








**AI-2:** Encourage postsecondary institutions to host STLP events and /or more fully maximize the opportunity to showcase the university and its programs while students are on campus











**AI-3:** Build relationships with charter schools to determine policies and procedures related to architecture/design, systems security and privacy, services and reporting requirements

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KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1 	Increased CTE Dual Credit Offerings through JCTC	Lee Barger, Kim Boggs, District HS Principals	Continuation	Perkins, KETS	\$26,000	<ul style="list-style-type: none"> <li>Increased student enrollment and pathway completion numbers</li> </ul>
AA-2 	Business and Industry Partnerships	All CTE Teachers, College and Career Coaches, CTE AP's, Chamber of Commerce	Continuation	N/A	0	<ul style="list-style-type: none"> <li>Continued partnerships and successful preparation for career or college</li> </ul>
AA-3 	Growth of Diesel Mechanics program with ECTC	Lee Barger, Shannon Hall and Darrell Vincent	Continuation	N/A	0	<ul style="list-style-type: none"> <li>By certifications earned</li> </ul>
AA-4 	Growth of Aviation Maintenance program	Lee Barger, Shannon Hall and Darrell Vincent	Continuation	N/A	0	<ul style="list-style-type: none"> <li>By certifications earned</li> </ul>
AI-1 	Naviance - Career guidance tool for students	Adrienne Usher Lee Barger	On-Going	Jim Beam Funding	\$35,090.82	<ul style="list-style-type: none"> <li>Reports</li> </ul>

# DISTRICT TECHNOLOGY PLAN

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AI-2 	Create community workforce needs assessment, which will include technology skills	Lee, Barger, Bullitt County Chamber of commerce Exec Dir, economic development director and state chamber of commerce	TBD	Various sources	N/A	<ul style="list-style-type: none"> <li>Identify jobs where employment opportunities exist, and determine the skills needed by students to fill those positions.</li> </ul>
AI-3 	Increase Robotic and Industrial Maintenance. Includes Fanuc Robotics Arm, Dobots and other emerging technologies	Lee Barger, Darrell Vincent	Continuation	Perkins	\$39,000.00	<ul style="list-style-type: none"> <li>By certifications earned and job placement to Tower International</li> </ul>
AI-4 	Increase usage of Laser Engravers for engineering programs	Lee Barger, HS Principals and Engineering Teachers	Continuation	Perkins		<ul style="list-style-type: none"> <li>Real-world project based learning opportunities increased and interest by students to participate in this program.</li> </ul>
AI-5 	Dispatch simulation of 911 emergency center	Lee Barger, Law enforcement teacher	5/31/20	Donation of equipment from Bullitt Co. dispatch center		<ul style="list-style-type: none"> <li>Certifications earned, increased number of student co-op, successful transition</li> </ul>
AI-6 	Expand Aviation program to include an emphasis of Drones	Lee Barger, Darrell Vincent	Continuation			<ul style="list-style-type: none"> <li>Certifications earned, job placement in transition from high school</li> </ul>

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AI-7 	Increased online course offerings to meet the needs of all students	Ruth Esterle, Sarah Smith, Lee Barger, Assistant Superintendent for Student Learning	6/30/2020	NA	NA	<ul style="list-style-type: none"> <li>• Increase student graduation rate</li> <li>• Meet the needs of students with hardship cases</li> </ul>
AI-8 	Increase STLP growth and connect with other robotics, STEM, STEAM, PLTW and related programs	District Robotics Coordinators, Science Teachers, STLP Coordinators	Continuation	Title IV		<ul style="list-style-type: none"> <li>• Review annual progress roadmap for this initiative</li> <li>• STLP Participation Increase</li> </ul>
AI-9 	EPREP (CERT)	Lee Barger	Continuation	General Fund	\$43,600.00	<ul style="list-style-type: none"> <li>• Number of student certifications earned</li> </ul>





## Digital Curriculum, Instruction & Assessment

Future Ready Gear




**KETS GUIDING PRINCIPLE** – A digital learning experience is fostered by a teacher or coach with the use of rich digital instructional materials that are vetted to the rigor of Kentucky Academic Standards. A robust digital environment provides students with the opportunity to assess their own learning/progress.




Areas of Emphasis: Areas of Acceleration (AA)  /Areas of Improvement (AI) 

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1 	Provide access to instruction through digital content which further aligns to the Kentucky Digital Learning Guidelines.	TIS/DLC, Content Specialists, Instructional Coaches	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>• Eleot tool reflects Digital Learning taking place in the classroom.</li> <li>• Teacher and Student Observations</li> <li>• Student digital products</li> </ul>
AA-2 	Provide opportunities for students to demonstrate learning connected to and through technology <i>(empowering students through technology with STLP, STEAM, Robotics, Computer Science, etc.)</i>	TIS/DLC, STLP Coordinators, Robotics Coordinator, Computer Science Teachers, Director Career / Technical Education	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>• Increased STLP/Robotics participation</li> <li>• Student Observations</li> <li>• Increased interest in Computer Science courses</li> <li>• Community Involvement/Collaboration (Career Days, Industry Partners)</li> <li>• Increased student engagement, involvement, motivation, and collaborative techniques.</li> </ul>






# DISTRICT TECHNOLOGY PLAN




KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-3 	Promote Kentucky approved K-12 Computer Science Standards and ISTE Standards <i>(based on International Society for Technology in Education standards)</i> for ALL students.	TIS/DLC, Library Media Specialists, Content Specialists, Instructional Coaches, Computer Science Instructors	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>• Increased student enrollment in computer science courses</li> <li>• Increased computer science classes offered in CTE centers</li> <li>• Achieved Certifications, Developmental Progress through Formative Assessments</li> </ul>
AA-4 	Provide access to online assessment tools (MAP, Edgenuity, CERT, ACT) that allow teachers and administrators to assess student learning, provide timely feedback to students and make curriculum decisions.	TIS/DLC, LAN/WAN Engineer, DAC, Content Specialists, Instructional Coaches, College/ Career Coach, Counselors	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>• Academic Achievement Reports</li> <li>• Google Classroom - providing timely feedback to students</li> <li>• CTL Planning - curriculum and pacing guide evaluation and monitoring</li> </ul>
AA-5 	Provide equitable classroom access to digital instructional materials.	TIS/DLC, DTC/CIO	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>• TIS/DLC assigned to each school</li> <li>• DTC/CIO shows concerted effort through PO's to provide equitable access</li> <li>• Documentation from Readiness Survey</li> </ul>

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-6 	Facilitate the continued implementation of components for Interactive Classrooms	TIS/DLC, LAN/WAN Engineer, DAC, Content Specialists, Instructional Coaches, Administrators	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>Increased student engagement, differentiated instruction and mobile learning.</li> <li>Monitored through observations and EELOT data.</li> </ul>
AA-7 	Video opportunities to facilitate daily instruction will continue to be monitored and implemented.	TIS/DLC, LAN/WAN Engineer, DAC, Content Specialists, Instructional Coaches	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>Monitoring progress reporting through various video websites (examples: Khan Academy, EdPuzzle, School Yourself. etc.)</li> <li>Increase student achievement, engagement and differentiation through classroom instruction that is technology rich.</li> </ul>
AA-8 	Expand and explore digital literacy program opportunities to college and career pathway students.	TIS/DLC, LAN/WAN Engineer, DAC, Content Specialists, Instructional Coaches	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>Students develop critical thinking skills to help prepare them for the technical work force or further educational opportunities.</li> <li>Graduation rate, MAP scores, KPREP scores, Common Formative Assessment Data</li> </ul>




# DISTRICT TECHNOLOGY PLAN




KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-9 	Online programming delivered via wireless and hardwired clients, both district- and student-owned, will allow students to follow programs tailored specifically to meet their individual learning needs.	TIS/DLC, LAN/WAN Engineer, DAC, Content Specialists, Instructional Coaches,	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>Students can engage in credit recovery, dual credit or take courses not offered in the standard curriculum without usual restrictions of a standard schedule.</li> <li>Graduation rate increase, increase KOSSA scores, academic growth</li> </ul>
AA-10 	Continue to implement digital devices into daily instruction	TIS/DLC, LAN/WAN Engineer, DAC, Content Specialists, Instructional Coaches	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>Develop real-world learning connections to increase student engagement.</li> <li>Academic growth measures (MAP, KPREP, CFA)</li> </ul>
AA-11 	Continue to provide technology tools to students to facilitate differentiated and personalized curriculum (like MAP, Rosetta Stone, and Edgenuity) allowing a more student-centered learning environment.	TIS/DLC, All Teachers, Content Specialists, Instructional Coaches, Tammy Tomes, Adrienne Usher, Kim Lee	Continuation	General Fund	MAP - \$114,075.00 R.Stone- \$12,029.00 Edgenuity- \$154,500.00	<ul style="list-style-type: none"> <li>Students will become active producers rather than passive consumers.</li> <li>Academic growth, KPREP, CFA and MAP score growth</li> <li>Monthly monitoring reports</li> </ul>

# DISTRICT TECHNOLOGY PLAN

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AI-1 	Identify digital content and tools (curriculum, instruction and assessment) designed to have the highest impact and value, including frequency of use by teachers and students.	TIS/DLC	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>• Observations</li> <li>• Student Products</li> <li>• TIS/DLC Implementation Calendar (classroom lessons, modeling and teacher trainings)</li> </ul>
AI-2 	Create a closer connection with Career and Technical Education to expand information technology and computer science career pathway offerings specifically related to computer programming/coding.	TIS/DLC, CTE Educators, Content Specialists, Instructional Coaches, College/ Career Coach, Counselors	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>• Increased student enrollment in computer science courses</li> <li>• Increased computer science classes offered in CTE centers</li> <li>• Achieved Certifications, Developmental Progress through Formative Assessments</li> </ul>
AI-3 	Explore and continue to implement keyboarding opportunities for all students by the time they enter the secondary level.	DTC, TIS/DLC, Library Media Specialists, School Computer Lab Teachers	Continuation	Local School Funds	\$500.00	<ul style="list-style-type: none"> <li>• Increased keyboarding skills (typing, keyboard awareness, Chromebook and Microsoft skills assessments) for K-PREP/ACT Assessments</li> <li>• Learning Plans, Pacing Guides and Curriculum Maps</li> </ul>

# DISTRICT TECHNOLOGY PLAN

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AI-4 	Continue to develop and implement technology rich curriculum into the classroom and CTE Program.	Assistant Supt. for Learning, Instructional Staff, TIS/DLC, DTC/CIO	Continuation	District Funds, Grant Funds and Local School Funds	N/A	<ul style="list-style-type: none"> <li>Develop student engagement that will encourage the proper use of available technology.</li> <li>Observations, walkthroughs, learning plans, student achievement.</li> </ul>
AI-5 	Continue to provide technology tools to students to facilitate differentiated and personalized curriculum allowing a more student-centered learning environment.	TIS/DLC, All Teachers, Content Specialists, Instructional Coaches	Continuation	General Fund	\$114,075.00	<ul style="list-style-type: none"> <li>Students will become active producers rather than passive consumers.</li> <li>Academic growth, KPREP, CFA and MAP score growth</li> </ul>
AI-6 	Technology integration strategies will incorporate Kentucky Academic and ISTE Standards with professional development training aligned.		Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>Increased student engagement and differentiated instruction to meet individual needs.</li> <li>Increase student proficiency in 21st Century Skills that will encourage proper utilization and use of available technology.</li> <li>Observations through ELEOT tool as well as lesson plan documentation.</li> </ul>

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AI-7 	Support the use of approved instructional/educational applications to meet the individual needs of teachers/ students. Ensuring all new purchases meet data security and copyright criteria.	Instructional Staff, TIS/DLC, Administrators, RTI Coordinator, DTC, Asst. Supt. for Instruction	Continuation	District Funds	N/A	<ul style="list-style-type: none"> <li>• Increase Student Proficiency in 21st Century Skills and differentiated instruction practices.</li> <li>• Student Products, Student Usage Assessment, RTI Reports</li> </ul>
AI-8 	Incorporate education for all students on Digital Citizenship. Digital Driver's License at the Secondary level and Library Media Specialists covering the Elements of Digital Citizenship at the elementary level.	Instructional Staff, TIS/DLC, and Administrators	Continuation	District Funds / Curriculum Department	N/A	<ul style="list-style-type: none"> <li>• Increased incorporation and self-monitoring of digital citizenship to become productive and responsible users of digital technologies (Ribble, 2007).</li> <li>• Classroom Observations</li> <li>• Learning/Lesson Plans</li> <li>• DDL Dashboard</li> </ul>
AI-9 	Increase access to the latest instructional resources. Deployment and updates by the district.	CIO/DTC, LAN/WAN Engineer	Continuation	District Funds	N/A	<ul style="list-style-type: none"> <li>• Maintain Microsoft Campus Agreement for the latest version of MS Office and other Microsoft products for district.</li> </ul>





**Personalized Professional Learning**




Future Ready Gear

**KETS GUIDING PRINCIPLE** – Digital learning expands the access to quality strategies and experiences for educators beyond the traditional methods of professional development. A culture of digital collaboration, workflow and relationships allows educators to build skill sets and instructional best practices with colleagues globally. This approach of increased access and flexibility for professional learning ultimately leads to greater success for students.

Areas of Emphasis: Areas of Acceleration (AA)  /Areas of Improvement (AI) 

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1 	Continue building a culture of digital collaboration and connected digital relationships that allow administrators to support and encourage the use of digital tools by staff for professional learning.	All Staff	Continuation	District and local funds	N/A	<ul style="list-style-type: none"> <li>Data from the Professional Learning Tracking Application</li> </ul>
AA-2 	District Participation in Digital Learning Professional Development Opportunities like our district Digital Learning Academy, KYGoDigital, IFL (Fayette Co) among multiple learning opportunities through OVEC.	TIS/DLC, Instructional Staff, Administrators	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>Classroom Observations</li> <li>Learning/Lesson Plans</li> </ul>

# DISTRICT TECHNOLOGY PLAN

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AI-1 	Provide district with continuing guidance and support to determine crucial learning needs of Certified staff resulting in more professional learning opportunities	DLC/TIS, Instructional Coaches	Continuation	District & Local funds	N/A	<ul style="list-style-type: none"> <li>Monitoring of Professional Learning opportunities through DLC or District Calendars as well as the PL Tracker application</li> <li>Observe integration in classroom instruction through ELEOT</li> </ul>
AI-2 	Provide regular technology related Professional Learning opportunities throughout the school year that align with KY Academic and ISTE Standards.	DLC/TIS	Continuation	District & Local funds	N/A	<ul style="list-style-type: none"> <li>Monitoring of Professional Learning opportunities through DLC or District Calendars as well as the PL Tracker application</li> <li>Observe integration in classroom instruction through ELEOT</li> </ul>
AI-3 	Provide ONLINE technology related Professional Learning opportunities throughout the school year that align with KY Academic and ISTE Standards.	DLC/TIS	Continuation	District & Local funds	N/A	<ul style="list-style-type: none"> <li>Monitoring through online learning achievement mechanism (Google Form, etc.).</li> <li>Observe integration in classroom instruction through ELEOT</li> </ul>








## Special Education

Future Ready Gear

Areas of Emphasis: Areas of Acceleration (AA)  /Areas of Improvement (AI) 

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1 	Offer teacher/staff training Re posting Google Classroom content in a digitally readable format, and using Google speech to text/text to speech extensions to increase universal independent access.	DLC, Special Ed. AT	Continuation	District & Local funds	N/A	<ul style="list-style-type: none"> <li>Documented PD trainings offered to school staff and individual teachers</li> </ul>
AI-1 	Develop a district workflow for helping teachers universally present content in a digitally readable format. This will reduce student pullout for readers and allow increased access to content. Year 1 - formulate a simple workflow for teachers to follow and introduce to school administrators and curriculum coaches.	Student Learning, curriculum coaches, DLC, Special Ed A	Continuation	District & Local funds	N/A	<ul style="list-style-type: none"> <li>Number of schools adopting workflow to help teachers post digitally readable content.</li> </ul>

<p><b>AI-2</b> </p>	<p>Purchase occasional iPads/Chromebooks for special education teachers or students who have financial need and who have a written plan detailing need and how it will be used to increase student access to academics</p>	<p>CIO/Special Ed AT</p>	<p>Continuation</p>	<p>General Funds KETS</p>	<p>\$1,000.00 \$5,000.00</p>	<ul style="list-style-type: none"> <li>• Student use data</li> </ul>
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