

# DISTRICT TECHNOLOGY PLAN

**DISTRICT NAME** Danville Independent Schools

**LOCATION** Danville, KY

**PLAN YEAR(S)** 2022-2025



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## Planning Team

District Staff	
Brian Gover-Director of Technology	Dr. Elmer Thomas Superintendent
James Bender-Network Engineer	Suzanne Farmer-Chief Academic Officer
Joe Neikirk-District Technician	Jennifer Wilson-Finance Officer
David Cook-District Technician	
Building Staff	
Norma Hopkins-Hogsett Library Media Specialist	Brent Beauman-DHS Technology Resource Teacher
Sarah Beauman-Toliver Library Media Specialist	
Larry Ebert-Bate Technology Resource Teacher	
Additional District Contributors [Recommended to include board members, SBDM members, program directors, etc.]	
Esther Rugerio-Board Chair	Glenn Ball-Board Member
Jennifer Pusateri-Board Vice Chair	Kent Mann-Board Member
Melinda Weathers-Board Member	
Students	
Other	

## 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.

*What goals were met?*

The majority of our 2020-2022 plan’s goals were met. We secured a fiber contract and were able to purchase a new phone system and fabric switches. We moved to a more efficient inventory system and added a Spanish option to our online registration system. All students 2nd-12th grade now have Campus Portal accounts and the majority of our households have at least one parent/guardian who has an account for checking grades and completing online registration.

*Goals that were not met or didn’t have the expected outcomes?*

COVID hindered a few of our goals. We received ERATE funding for our wireless access point refresh; however, they are currently on backorder. We did not give the Speak Up survey during the year we were mostly virtual. Our STLP participation goal wasn’t met either. Setting copy limits for staff was something schools decided not to do.

*Areas of improvement?*

We improved our ability to track and inventory student chromebooks. Our one to one device program runs smoother now that we have tweaked some things during the past two years.

*Areas/goals that are no longer relevant?*

We decided to drop a few of our online programs (ESGI, CERT, etc.) after evaluating their effectiveness.

*Needs that emerged after evaluation of the previous plan?*

We need to address internet access at home either by continuing to provide hotspots or by helping parents find affordable internet through the Affordable Connectivity Program. We have plenty of technology equipment and programs, but we struggle at times with the PD component of each.

## 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]

*How did you and the planning team decide on the goals for this plan?*

The planning team looked at last year's plan and determined what areas still needed work. We then took parts and pieces of those areas to create this plan. We gathered feedback from school/district administrators, and surveyed staff regarding different sections of the plan. Our technology infrastructure was also evaluated by the tech department.

*Briefly discuss the major activities slated for implementation and how these activities will advance curriculum and instruction integration, student technology literacy, professional development, & technology infrastructure.*

We plan on upgrading all of our network switches over the next couple of years which will update our oldest components in our infrastructure. We will also work on streamlining account creation processes for added efficiency and security. Staying focused on good communication through websites, social media, newsletters, etc. will be a priority as well. Working towards a district-wide universal screener and standards mastery tracking system will be another goal. All of these things will remove technology related barriers and will give teachers the tools they need to be facilitators of learning.

## 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.

*Do you currently have a method to collect student responses about the digital learning environment? If so, which tool (ex: BrightBytes, Speak Up, survey created by you or the district, other)?*

In the past, we have utilized an NTI survey with some of our students, parents, and staff. We have used district created google forms with our teachers regarding technology needs and programs. In the future we would like to get feedback through Brightbytes or Speak Up.

*If you have a method to collect student voice for this purpose, reference specific data points from the collection that were useful in developing strategies for this new plan.*

We plan on giving the student Speak up survey to grades 3-12 in the near future.

## **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) 



**AA-1:** Continue to provide nation's first, fastest, highest quality, and most reliable internet access to 100% of Kentucky's public schools



**AA-2:** Continue to ensure equity and standardization for delivery of device, network, data and support creating best in class staff and student digital experiences AND provide a system of shared/brokered/managed services maintaining low infrastructure costs and providing support structures promoting the use of personalized learning environments



**AA-3:** Continue to create a culture of digital connectedness through all- the-time, everywhere, always on digital opportunity and access with emphasis on dense Wi-Fi throughout schools (*also including home access, Wi-Fi buses, school and classroom Wi-Fi, etc.*)



**AA-4:** Continue to encourage the use of instructional programs and administrative processes requiring cloud-based services



**AI-1:** Improve ease of access for student and staff through continued progress toward 1:1 student to computer ratio utilizing increased amounts of mobile devices (*fewer traditional computer labs*)



# 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-2	Continue to file ERATE for years 2-4 of our managed fiber 10- GB uplink to all buildings.	DTC, Vendor Partner	Spring 2022-2025	ERATE 90% General Fund 10%	\$135,000 per year	High internet uptime with very little down time.
AA-2	Replace school admin and classroom phone handsets with newer, SIP compliant phones	DTC, Network Engineer, district technicians	Summer of 2022, Summer of 2023	General Fund, KETS	\$15,000	All phones in the district will be SIP compliant
AA-2	Move from a PRI line to SIP trunks	DTC, Network Engineer, Vendor Partner	Summer 2025	General Fund	\$0	Phone system main connection will be SIP instead of PRI which will bring us in line with newer technology
AA-3	Refresh wireless access points for middle and high schools	DTC, Network Engineer, district technicians	Fall 2022	ERATE 85% General Fund 15%	\$80,000	New technology and reporting features, amount of uptime reports, better user experience
AA-3	Refresh all switches district-wide	DTC, Network Engineer, district technicians	Summer and Fall of 2023	ERATE 85% General Fund 15%	\$100,000	Network traffic will pass smoother based on network reports



## 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) 



**AA-1:** Continue to support districts in securely accessing and managing key student and administrative data sets through improved user experiences, refined data collection processes, continuously updated policies and practices regarding student data security, and timely access to data sets that improve the depth and efficiency of student learning (*Infinite Campus, Early Warning, MUNIS, eTranscripts, School Report Card*)



**AA-2:** Continue to identify key aspects of data security regularly to build upon the current systems, procedures and policies to remain a leader in mitigating emerging threats (*acceptable use policies, firewall updates, data privacy studies, digital citizenship, content filtering*)



**AA-3:** Continue to utilize adoption metrics or trending data for planning purposes that allow EdTech leaders to identify what's working and what's not working based upon data quality and evaluate current systems and solutions to determine effectiveness and future direction (*annual auditors, TELL survey, Technology Activity Report, Digital Readiness, Data Quality Study, Data Quality Campaign, BrightBytes, SpeakUp*)



**AA-4:** Continue to migrate key administrative and student data sets to secure cloud-based services that allow anywhere, anytime secure access for the improvement of student learning (*Infinite Campus, Early Warning, School Report Card, MUNIS*)



**AA-5:** Continue supporting teacher efforts in taking ownership of digital citizenship skills and education their student in the same skills to foster a secure digital learning environment



**AI-1:** Educate and support districts in the importance of personnel with duties related to student/staff data quality, security and privacy as well as bringing data privacy to the "radar screen" of teachers/staff (*The People Side of EdTech*)



**AI-2:** Kentucky K-12 Data systems are first-class but we need to do much better with district using the data available to them as well as providing visual data analytic tools allowing the data to be better understood and more interesting to the average person who does not have a technology and data background

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	Continue to refine our policies and procedures as it relates to assigning permissions to critical systems such as MUNIS, Infinite Campus, and other applications that contain sensitive data.	DTC, Finance Officer, DPP, IC Data Coordinator	ongoing	N/A	N/A	Process in place requesting, approving, and applying permissions when needed to secure sensitive information
AI-1	Work with HR to streamline our process of onboarding new staff as well as procedures to follow when staff leave.	DTC, HR Coordinator, Finance Director	Summer 2022	N/A	N/A	New staff will have access to what they need when they need it, when staff leave all accounts will be secure
AA-3	Give the Speak Up survey to staff, students, and parents. Analyze and act on results.	DTC, Principals, District Admin Team	Spring 2023, Spring 2025	N/A	N/A	Implementation of action items developed while analyzing the data.



## 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

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-2	Adjust replacement budget cycle for student 1:1 devices K-12 due to COVID ESSER money and develop a staff device replacement schedule.	DTC, Finance Officer	Fall 2022	KETS General Fund	\$60,000 per year	Devices will be replaced as they come to the end of life or are lost/damaged. Students and staff will always have working devices.
AA-3	Evaluate the use of Title IV funds for technology professional learning.	DTC, Finance Officer, Title Director, Assistant Superintendent	Each Spring	Title IV planning	N/A (Planning only)	Technology professional learning plan will be established and documented.
AI-4	Survey staff regarding the usage of online programs and other instructional technologies used in classrooms in order to make decisions about what we continue to use and what we do not.	DTC, School Principals, Instructional Coaches	Each Spring	N/A	N/A	Use data collected from end of year data analysis to see which educational technology investments are or are not being maximized.



## 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	Keep the district and school website up to date with the latest information for families, students, and staff. Send out a district newsletter at least twice a month.	Senior Media Manager, School webmasters	ongoing	General Fund	\$4,000 (webhosting cost for district and all schools)	Web Page analytics, newsletter distribution list and hits
AA-1	Increase effectiveness of district and school social media by streamlining and developing a process of creating/maintaining accounts	Senior Media Manager	ongoing	N/A	N/A	Built-in analytic tools for each platform, fewer stakeholder complaints regarding communication
AA-3	Develop a presentation on student online safety and present it to families on parent nights/open houses	DTC, SROs, Assistant Principals	Fall 2022, ongoing	N/A	N/A	Parents/Guardians will know what to look for when protecting their children online



## 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) 



**AA-1:** Continue to provide access to instruction digital content which further aligns to the Kentucky Digital Learning Guidelines



**AA-2:** Continue providing opportunities for students to demonstrate learning connected to and through technology (*empowering students through technology with STLP, IT Academy, etc.*)



**AA-3:** Continue to finalize and partner with Career and Technical Education (CTE) to promote Kentucky approved K-12 Computer Science Standards and Technology/Digital Literacy Content Standards (*based on International Society for Technology in Education standards*) for ALL students



**AA-4:** Continue providing access to online assessment tools that allow teachers and administrators to assess student learning, provide timely feedback to students and make curriculum decisions (*online formative assessment tools, interim based assessments, and summative assessments*)



**AA-5:** Continue to provide districts/classrooms access to digital instructional materials through an equitable of robust digital experience



**AI-1:** Identify digital content and tools (curriculum, instruction and assessment) designed to have the highest impact and value (e.g. is the technology making or not making an instructional and learning difference?), including frequency of use by teachers and students



**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 and increase exams available through IT Academy



**AI-3:** Play a vital role in implementation of summative online assessment and school report card and dashboard tool of the new assessment and accountability system



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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	Use SeeSaw in grades Pre, K, and 1 for student tasks and projects	Principal, instructional coach, teachers	ongoing	School Seek	\$2,000	Student usage and Seesaw reports, parent feedback'
AA-1	Use the Mastery Prep program to provide ACT like questions for students to help increase ACT scores.	High School Principal, Instructional Coach, teachers	ongoing	Title V	\$5,000	Student usage and mastery reports provided by Mastery Prep. Increased ACT composite average for Danville High School.
AA-1	Use the Edgenuity Online Learning Platform for Credit Recovery, Alternative Education, and our virtual academy for grades 6-12.	Principals, Instructional Coaches, teachers	ongoing	Title V, ESSER, general fund	21,000 per year	Student usage and reports provided by Edgenuity, increase in credits earned
AA-2	Increase the number of students participating in regional/state STLP competitions by advertising opportunities to students	DTC, TRTs, LMSs, Teachers, Principals	ongoing	Title IV	\$2,000 Transportation costs	Student participation logs, meeting agendas, number of student project entries.
AA-4	Move towards a district-wide universal screener	Asst. Superintendent, DTC, Principal, coaches, teachers,	Spring 2023	Title V	\$11,000	Staff and students will be able to determine a year's worth of growth
AA-4	Use Edulastic in grades 2-12 to align and track progress made toward standard mastery.	Principal, Instructional Coaches, Teachers	ongoing	Title V, General Fund	\$7,000	Edulastic Reports, Curriculum Maps, increased test scores



**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) 



**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.



**AI-1:** Provide district with guidance and support to determine crucial learning needs of teachers resulting in more professional learning opportunities related to digital learning tools

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 google trainings for new administrators and those administrators who would like a refresher course	DTC, Asst. Super	ongoing	N/A	N/A	Pass/Fail rate of certified educator exam, increased usage of google tools among admins
AA-1	Increase the number of staff led train the trainer types of professional learning opportunities related to technology	Principals, instructional Coaches, TRTs, Teachers	ongoing	N/A	N/A	Meeting agendas, increased technology use in the classroom
AA-1	Send an admin team to both KYSTE and state STLP events	School/Dist. Admins	Spring 2023	Title II and IV	\$2,400	Attendance logs and calendars, debrief notes



## Use of Space & Time

Future Ready Gear

**KETS GUIDING PRINCIPLE** – The personalized learning environment for students requires reimagining the use of school space and time. Virtual instruction, cloud-based learning tools, digital instructional material, digital collaboration, digital workflows and digital relationships, etc., assist in providing the vehicle for anywhere, anytime learning.

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



**AA-1:** Continue to provide guidance, support and resources for districts in the development and application of high quality online/virtual coursework as well as implementation of learning management systems



**AI-1:** Educate and support districts in the implementation and facilitation of digital learning tools and portable technologies that foster anywhere, anytime access for staff and students

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	Train new staff to use Google Classroom as an LMS.	CIO, Principals	Summer 2022, ongoing	N/A	N/A	PD logs and agendas, google admin reports, increased classroom usage
AA-1	Continue to implement makerspaces in each school building	CIO, LMSs, Principals	Summer 2023	Title IV	\$8,000	Creation of makerspaces in all library media centers