

DISTRICT TECHNOLOGY PLAN

DISTRICT NAME Hardin County School

LOCATION Elizabethtown, KY

PLAN YEAR(S) 2021-2022



HARDIN COUNTY SCHOOLS
HELPING CHILDREN SUCCEED

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Table of Contents

[Table of Contents](#)

[Planning Team](#)

[Previous Plan Evaluation](#)

[New Plan Preview](#)

[Student Voice](#)

[KETS Master Plan Areas of Emphasis](#)

[Robust Infrastructure & Ecosystem](#)

[Data Security, Safety & Privacy](#)

[Budget & Resources](#)

[Partnerships](#)

[Digital Curriculum, Instruction & Assessment](#)

[Personalized Professional Learning](#)

[Use of Space & Time](#)

Planning Team

District Staff	
Terrie Morgan, Superintendent	Greg Sutton, Chief Academic Officer
John Stith, Chief Financial Officer	Lafe Tabb, CIO/Director of Instructional Technology
Brandy New, Director of Innovation	Steve Boone, Computer Operations Manager
Tim Calvert, Network Administrator	Michael Arnold, Network Administrator

Building Staff	
Jessica Hundley, Central Hardin STC	Jan O'Daniel, John Hardin STC
Michelle Smith, North Hardin STC	Margie Findley, Bluegrass STC
Mary Carruthers, East Hardin STC	Katie Newton, JT Alton STC
Shelly Haun, North Middle STC	David Robbins, West Hardin STC
Tammy Riggs, Cecilia Valley STC	Sue Langley, Creekside STC
Carrie Skaggs, GC Burkhead STC	Krystal Miller, Heartland STC
Kathy Hamilton, Lakewood STC	Mikki Bland, Lincoln Trail STC
Kandi Bradford, Meadow View STC	Amanda Urbahns, New Highland STC
Cindy Sage, New Highland STC	Monique Berthold, Radcliff STC
Pam Johns, Rineyville STC	Angela Hill, Vine Grove STC
Rebecca Tabb, Woodland STC	

Additional District Contributors	
Charlie Wise, Board Chairman	Dawn Johnson, Board Member
Steve Bland, Board Member	Mark Casey, Board Member
Ben Segó, Board Member	

Previous Year's Strategies Evaluation

In this section include a discussion of the previous year's strategies using the prompts below. Attempt to limit your narrative to the space provided.

What strategies from last year went well?

- Infrastructure improvements of our network core, replacement switches, & replacement phone systems
- significant increase in the number of student devices
- on-line state testing went well with few issues
- on-line student registration continues to improve

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

- continuing to improve our Digital Citizenship instruction
- creating a tool to collect student input on the digital learning environment

Needs that emerged after evaluation of the previous year's strategies?

- 1 to 1 student to device initiative is now in progress

Upcoming Year's Strategies Preview

If this is the first year of a multi-year plan, this section acts more like an executive summary of the plan as a whole. If this is the second or third year of a multi-year plan then aim your discussion to any new strategies or adjustments you are planning for this year.

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

How did you and the planning team decide on the strategies and/or adjustments for this plan?

The Hardin County School District technology committee meets on a monthly basis to discuss technology needs and implementation in the district. The district committee works with school representatives and Kentucky Department of Education representatives to implement technology for students and staff in the district. In addition the district technology department works with school and district personnel to facilitate the implementation of technology in the district. The district committee is composed of the District Technology Coordinator, Computer Operations Manager and the School Technology Coordinators.

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.

Initiatives for 2021-2022:

- 1 to 1 chromebook initiative for students grades 3-12
- continue to replace obsolete phone systems
- implement a plan to replace aging interactive boards and projectors with interactive panels
- upgrade network access controllers in order to handle next generation of wireless access points
- replace aging and obsolete copper network wiring in 9 of our buildings
- increase participation and production of the Innovate Fellowship to help implement technology in the classroom
- provide a classroom management system for classes with 1 to 1 chromebooks
- provide a district license for classroom software to increase interactivity and better engage students
- implement new assessment tools to better track student progress

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)?

We do not currently have a method to collect student responses about the digital learning environment.

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.

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 36 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 <i>(also including home access, Wi-Fi buses, school and classroom Wi-Fi, etc.)</i>
 AA-4	Continue to encourage the use of instructional programs and administrative processes requiring cloud-based services
 AI-1	Improve ease of access for students and staff through continued progress toward 1:1 student to computer ratio utilizing increased amounts of mobile devices <i>(fewer traditional computer labs)</i>

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)
AA3	Upgrade wireless in North Hardin and John Hardin gymnasiums to accommodate large groups for ACT testing	CIO, Computer Operations Manager, Vendor Partner	completed by June 30, 2022	Erate KETS General Fund	\$86,000	Will be able to test over 100 students at a time online in each gym
AA1	Upgrade wireless controllers	CIO, Computer Operations Manager, Vendor Partner	Completed by June 30, 2022	Erate KETS General Fund	\$240,000	Will be able to use next generation of wireless access points to have increased connectivity
AA1	Upgrade fiber connections and switches between buildings at the Central Office/New Highland/Bluegrass/John Hardin campus	CIO, Computer Operations Manager, Vendor Partner	completed by June 30, 2022	Erate KETS General Fund	\$47,000	Increased bandwidth
AA1	Replace copper wiring at Meadow View, JTA, Bluegrass, New Highland, North Hardin, CVC, Central Office, & Bus Garage	CIO, Computer Operations Manager, Vendor Partner	completed by June 30, 2022	Erate KETS General Fund	\$1,135,000	Increased bandwidth
AI1	Purchase chromebooks to begin 1 to 1 initiative	Superintendent, Board, CFO, CAO, CIO, Principals, STCs	completed by June 30, 2021	ESSER Funds	\$900,000	Issuing every 3rd-12th grade a student a device.
AA2	Upgrade John Hardin phone	CIO,	completed by Dec	General Funds	\$65,000	New systems in place and



	systems to IP based system	Computer Operations Manager, CFO	31, 2021			operating
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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 (<i>Infinite Campus, Early Warning, MUNIS, eTranscripts, School Report Card</i>)
 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 (<i>acceptable use policies, firewall updates, data privacy studies, digital citizenship, content filtering</i>)
 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 (<i>annual auditors, TELL survey, Technology Activity Report, Digital Readiness, Data Quality Study, Data Quality Campaign, BrightBytes, SpeakUp</i>)
 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 (<i>Infinite Campus, Early Warning, School Report Card, MUNIS</i>)
 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 (<i>The People Side of EdTech</i>)
 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)
AA5	Improve Digital Citizenship instruction throughout district by implementing new curriculum for middle and high & uniform curriculum for elementary	CIO, Instructional Tech Coordinator, STCs, Principals, Teachers	completed by May 1, 2022	n/a	n/a	Number of student who successfully complete program
AA3	Use data from surveys conducted by Stueder Education to improve technology department effectiveness	CIO	ongoing through 2021-2022 school year	General Funds	\$100,000	Survey results over a 3 year period.
AA3	Create and distribute a Student Technology Survey	CIO, Instructional Tech Coordinator, STCs, Principals, Teachers	by October 1, 2021	na	na	School participation rates
AA2	Update current Acceptable Use Policy and Procedures to reflect changes and 1 to 1 devices	CIO, Superintendent, Board	completed by July 30, 2021	na	na	New policy passed by Board












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 (<i>ex. Accounting for cost of ownership over the lifespan of equipment so monies are allocated for repairs/upgrades</i>)
 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 (<i>e.g. Internet consumption</i>) while maximizing education technology programs and initiatives (<i>Technology Need, E-rate</i>)
 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 (<i>Infinite Campus, Early Warning, School Report Card, MUNIS</i>)
 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	Make districts aware of position/roles requiring technology-related duties in support of technology and instruction (<i>The People side of K-12 EdTech</i>)
 AI-2	Make districts aware of how to reduce expenditures on printing/print services (<i>both in consolidated contract pricing as well as shifting from paper to digital experiences</i>)
 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)
AA1	Continue to work with CFO to find funding for technology projects that exceed KETS allotment (This year for example are the rewiring of 8 buildings & wireless software upgrade).	CIO, Chief Financial Officer, Superintendent	ongoing	KETS General Funds	varies	Successful installation and implementation of projects that exceed KETS allocation.
AI-2	Continue to inform district and school leadership on digital efficiencies.	CIO, IT Staff	ongoing	NA		Compare year to year costs when changes are made
AA-3	Continue to leverage Erate funds for eligible services as needed by the district. This can decrease the district's financial responsibility by 80% saving the district hundreds of thousands of dollars	CIO, IT Staff	ongoing	NA		Annually calculating the Erate funding award and comparing to the district's expense for eligible services to verify Erate is being fully utilized and these funds provide a significant savings to the district.

 **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 (<i>districts, vendors, higher-education, regional cooperatives</i>)
 AA-2	Continue to utilize avenues of communication with shareholders allowing pertinent information and dialog to further student learning efforts (<i>Webcasts, BrightBytes, Technology Activity Report, KETS Service Desk, Office of Education Accountability studies, independent studies, etc.</i>)
 AA-3	Continue to utilize tools engaging postsecondary institutions, community members, districts and families in student learning and life after K-12 (<i>eTranscripts, School Report Card and Dashboard tool, Infinite Campus parent and student portal, KDE Open House, Digital Readiness Survey</i>)
 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



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)
AA2	Work with local law enforcement to create a presentation that can be given at school parent events and on the local access tv channel that emphasizes the importance of internet safety.	Director of Innovation, Director of TVP, Local law enforcement	throughout school year	General Funds	\$1000	Number of parent events where presentation is given. Broadcast on local access channel
AA1	Maintain and improve online registration system for parents	CIO, Computer Operations Manager, Director of Student Services, Attendance staff	Ready for registration window	General Funds	\$35,000	Number of registrations completed online increase from previous year. Amount of paper used vs previous year.
AA1	Replace outdated parent communication system with new system	Superintendent, Director of Public Relations	Begins July 1, 2021	General Funds	\$15,000	Improved delivery of automated calls and texts











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 (<i>empowering students through technology with STLP, IT Academy, etc.</i>)
 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 (<i>based on International Society for Technology in Education standards</i>) 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 (<i>online formative assessment tools, interim based assessments, and summative assessments</i>)
 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



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)
AA2	Increase the number of students involved in STLP across the district by providing coordinators more resources and by removing barriers to participation (mainly transportation issues to regional and state competitions)	CIO, Director of Innovation, STLP Coordinators	May 1, 2022	KETS	\$10,000	Number of students who attend regional and state competitions.
AA4	Implement new iReady assessment tool for all K5 students to better assess learning and plan curriculum decisions	CAO, School Principals, all teachers	August 1, 2021	General Funds	\$60,000	Comparison of iReady testing data to state testing data to see if there is a correlation
AA4	Implement new iReady assessment too for all Middle & High students to better assess learning and plan curriculum decisions	CAO, School Principals, all teachers	December 1, 2021	General Funds	\$60,000	Comparison of iReady testing data to state testing data to see if there is a correlation





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)
AA1	Expand the Innovate Fellowship program to help implement technology in the classroom throughout our schools with a focus on Blending Learning strategies	CIO, Director of Innovation, Director of Federal Programs, Principals, Innovate Fellows	May 1, 2022	KETS Federal Programs	\$25,000	Number of PD opportunities provided by Fellows
AA1	Provide multiple professional development opportunities throughout the year and in the summer for the implementation of	CIO, Instructional Tech Coordinator, Innovate	June 15, 2021	KETS Federal Programs	\$10,000	Number of technology related PD hours completed by staff



	technology in the classroom	Fellows				
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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)
AA1	Train teachers on the use of G Suite as a learning management system	CIO, Innovate Fellows, teachers	on going	na	na	Number of teachers using Classroom
AI1	Train teachers and administrators of the use of classroom management tool GoGuardian to enhance student online productivity and safety.	CIO, Innovate Fellows	Summer & Fall 2021	Federal Funds	\$26,000	Number of teachers proficient in GoGuardian