Kentucky Education Technology System
DISTRICT TECHNOLOGY PLAN

DISTRICT NAME	Dayton Independent Schools
LOCATION	Dayton, KY
PLAN YEAR(S)	2019-2021

www.dayton.kyschools.us

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Planning Team

District Staff [Recommended to include CIO/DTC, TIS/DLC, technician, finance officer, superintendent, academic officer, etc.]

Casey Woods, District Technology Coordinator	

Building Staff [Recommended to included principals, LMS, STC, counselors, teachers, teaching assistants, etc.]

Dillon Mears, Dayton HS Digital Learning Coach	

Additional District Contributors [Recommended to include board members, SBDM members, program directors, etc.]

Students [Recommended to include middle and/or high school students]

Other [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.

Dayton High School was able to move to the 1:1 student instructional device model in grades 9 - 12.   Teachers utilize Google Classroom as their learning environment; providing the students a central collaboration space for their classwork and assessments.

We increased the number of instructional devices for students at Lincoln Elementary with iPADs. Each grade level has an a class set of 8 iPADs that are shared between the classes in that grade level. We continue to look for instructional tools that will benefit the classrooms as a whole.

We did not implement a Learning Management System (LMS) at Dayton High School as several options were discussed but leadership was not clear on needs.   Instead, we implemented Google Classroom to help facilitate online collaboration between students and teachers.

Continuous growth in data security and privacy for all staff is an area of improvement that the leadership will need to focus on. The technology department will continue to share breach information and continue to put in place measures to help mitigate against a data breach. But, continuous conversations with staff and users with high level data access will be the best way to combat a data breach.

We've built out the wireless and physical networks. The goal now for the network is to continue to provide a high availability network and maintenance on network gear.

Needs that emerged after evaluation of the previous plan?

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]

Grow the 1:1 program in the middle school - grades 7 and 8 - with Chromebooks. Utilizing Chromebooks provide anytime learning and collaboration in the classroom.

Evaluation of the next 1:1 device for Dayton High School students as the MacBook Air device warranty ends and Apple's recommendation to replace after 3 years.

Provide a better printing experience for staff by utilizing PaperCut print management.   This solution will allow staff to release their print job from any copier in the fleet throughout the district; minimizing wasted time and increasing efficiency.

Upgrading the IP Office software to the latest revision will provide better reporting features. It may add features not currently available in the current revision.

Evaluate Professional Development needs via data collected by the Digital Learning Coach and Director of Teaching and Learning. Providing the teachers, staff, and administrators trainings on newer instructional technologies - for example VR Headsets, 3D Printing, etc - will be key in engaging students in real world experiences.

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)?

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 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)*

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	Upgrade network switches in Dayton High School 2nd Floor IDF.	DTC	completed by June 30, 2020	Erate (CAT-2) KETS	$12225.17 $2468.98	Network monitoring of utilization and increase network use. Less ticket reports of internet/wifi issues
AI-1	Provide 7th grade students Chromebook device	DTC Digital Learning	completed by August 20,	KETS General Fund	$28535.00	Monitor increase of technology use in the classroom using

		Coach Principals	2019			Leadership Walkthroughs. Monitor increase of student engagement using student survey
AA2	Upgrade IP Office phone system software	DTC	July 2019	General Funds	TBD	Analysing log files to determine phone connection status and less tickets on phone connection issues
AI-1	Evaluate next Generation of 1:1 device for high school students	DTC Digital Learning Coach HS Tech Committee	September 2019	General Funds	TBD	Evaluate the use of student devices currently used. Evaluate the needs of these higher end devices verses a Chromebook or equivalent

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)
AA-1	Improve Office 365 security measures by continuous Microsoft licensing for A3 and A5 features	DTC	July 2019 - ongoing	General Funds	$11,052.00	Less SPAM getting through filters and web links scanned by Microsoft systems (A5 feature). Setup daily email notifications to notification group from Office 365 for account access attempts with failures.
AA-2	Continue to education students on digital citizenship using Common Sense Media or Google's Digital Citizenship courses.	Director of Teaching & Learning Media Specialists at each school	July 2019 - ongoing	TBD	TBD	Using assessment tools to validate instructional practices
AA-2	Continue to education teachers, staff, and administrators on the threats on accounts	DTC	July 2019 - ongoing	NA	NA	
AA-2	Put in safeguards with users that have high level data access to prevent data breaches	DTC	July 2019 - ongoing	TBD	TBD	Review audit logs and meet with these users to help understand the access they have.

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-3	Upgrade Network switches in Dayton High School 2nd Floor IDF	DTC	July 2019	ERATE (CAT-2) KETS	$12225.17 $2468.98	Network monitoring of utilization and increase network use. Less ticket reports of internet/wifi issues
AI-4	Evaluate the instructional technologies available to teachers and how well they are utilized	Digital Learning Coach Director of Teaching and Learning	August 2019			Collection of data from various sources will help provide leadership the data as to how and how often instructional technologies are utilized; including, but not limited to; hardware such as smart boards, projection devices, and software subscriptions
AI-2	Implementation of PaperCut print management solution will help log print jobs and collect printing data throughout the district	DTC	July 2019	General Funds		

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

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 stay involved in EdTech Leadership conversations via monthly webcasts and face-to-face EdTEch meetings	DTC	July 2019	General Funds	TBD	Continuous conversations with local leadership regarding new and/or improved projects coming from the EdTech Leadership in KDE and seeing local projects aligned with the KDE projects
AA-3	Continue to utilize the eTranscript system	High School Guidance Office	July 2019	General Funds	TBD	Increase in higher education connections made via the eTranscripts system
AA-2	Utilize TAR and other EdTech reports to provide leadership guidance on instructional technologies needs	DTC	July 2019	N/A	N/A	Evaluations of current technologies and replacements of old/outdated equipment

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

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 support the high school STLP Helpdesk classes by providing opportunities to participate in STEM projects and technical courses; such as TestOut and Amazon's Coding Courses	Director of Teaching and Learning DTC Digital Learning Coach	August 2019 - ongoing	KETS Media Center Grant	TBD	Seeing an increase in student engagement in projects and project based learning. Evaluations such as assessments within learning systems - Amazon and TestOut systems - to provide feedback to students on knowledge mastery
AA-2	Provide classes for students to continue to achieve their MOS certifications	Director of Teaching and Learning Business Education Teacher	July 2019 - ongoing	Carroll Perkins	TBD	Continue to see students pass the MOS certification exams at the end of their course section

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 continuous support for Google Classroom implementation	Director of Teaching and Learning Digital Learning Coach	July 2019 - ongoing	TBD	TBD	Increase in the use of these instructional tools in the classroom.

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	Online Learning opportunities for students that need to redo classes for Credit Recovery	Director of Teaching and Learning Building Administrators	July 2019 - June 2021	SIG Grant	TBD	Increase in students earning credits in classes not passed.