

# Utah School Technology Inventory Project

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January 2020



Utah Education and Telehealth Network



**CONNECTED  
NATION™**





## Utah Education and Telehealth Network

With thanks to the Utah Legislature's commitment to digital teaching and learning, the Utah Education and Telehealth Network (UETN) is proud to present the third iteration of the Utah School Technology Inventory.

With the support of school and district-level technology directors, administrators and statewide leadership, UETN and nonprofit partner Connected Nation have successfully collected over 17,000 new data points across 1,018 public schools. The data, focused on digital teaching and learning resources, inform decision-makers of the current state of instructional technology in the classroom and helps identify future teacher and student needs. Furthermore, this report allows Utah's leaders to track changes in the technologies required for teaching and learning and to proactively recognize trends or outstanding issues that affect teachers and students.

This year's inventory shows that over the past two years, Utah educational institutions have added nearly 200,000 new computing devices for students, showing a particularly significant increase in the use of Google Chromebooks. As a result, the device-per-student ratio in the state increased from 0.84 in 2017 to 1.11 in 2019. In fact, 30 percent of district and charter schools have established some form of a 1:1 mobile device program. In spite of that, only a small percentage of those schools allow those devices to be taken home by students.

This is the first inventory where we have identified whether or not wireless networks in schools were professionally engineered. It was found that 77 percent of schools have professionally designed networks, allowing for better connectivity in classrooms. While that number is promising, we are reminded that over 20 percent do not have professionally engineered networks.

The data also show differences in the age of wireless versus wired hardware. Overall, fewer schools reported wireless gear four years or older. However, the data shows that wired gear is becoming fairly outdated across the state. Forty percent of schools reported wired hardware four years or older with only 5 percent reporting wired hardware one year or newer.

The data from this year's inventory are encouraging. Our commitment to enhance the digital teaching and learning environment for our students remains strong. Continuance of this inventory is of importance as it supports data-driven policy decisions and helps keep Utah at the forefront of the nation in providing quality educational experiences for its students. The data serve as a resource that policymakers can use to target the essential needs of Utah students. UETN will continue to collect, analyze, and report digital teaching and learning data in support of that need.

Sincerely,

Ray Timothy



CEO/Executive Director      We network for education and healthcare

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# Project History and Key Findings





## I. Project History and Key Findings

Technology has the power to equalize learning opportunities and award the same educational tools and experiences to students from the most rural of schools to the most urban. With a priority on world-class learning through technology, the state of Utah has been a trailblazer, not only through its commitment to connect schools to robust internet access, but also in its commitment to data-driven studies on how schools and districts use the technology available. With this commitment, the Utah Education and Telehealth Network (UETN) embarked on a third iteration of its School Technology Inventory, which comprehensively assesses digital teaching and learning resources available in every classroom throughout the state.

In 2015, the Utah legislature passed Senate Bill 222, which established a digital teaching and learning program that would be informed by a statewide inventory of classroom technology and related resources deployed across Utah's public and charter schools. This legislation catalyzed the first iteration of the School Technology Inventory, which commenced in the fall of 2015 and concluded in January 2016. Nonprofit Connected Nation (CN) was selected by UETN to develop a data collection portal and lead the inventory effort, which was successful in gathering data from 100% of public schools (regular district *and* charter schools) across the state.

Following this success, the Utah legislature passed a second bill, House Bill 277 (see Appendix A), in 2017 that established the state's Digital Teaching and Learning Grant Program. The program allotted grants to schools and districts seeking to improve student learning outcomes and professional learning opportunities for educators in the area of digital teaching and learning. To understand the investments made as a result of this legislation and, ultimately, the impact made in schools, UETN was charged with implementing a second iteration of the School Technology Inventory in late 2017. UETN continued its partnership with CN, and data was once again gathered and analyzed from 100% of the state's public schools.

At the conclusion of the 2017 inventory, an assessment of lessons learned and opportunities for improvement in the data collection process resulted in UETN's decision to build a new, custom data collection portal from the

ground up that can serve the needs of future inventory iterations. Beginning in mid-2018 with focus groups, surveys and dozens of conversations regarding how schools track and report data internally, the team applied the feedback received and developed a design plan. Then, the team selected a software developer via RFP and worked alongside them to ensure that the new portal would adequately address all identified needs. In October 2019, the new portal was launched and the third iteration of the inventory commenced on schedule.

The following report highlights the many findings of the 2019 inventory and offers a look back at historical data and trends observed dating back to the first iteration of the inventory in 2015.

### **Key Results and Findings**

- Since 2015, Utah Local Educational Agencies (otherwise known as LEAs, which consist of charter schools and public school districts) have significantly increased their investment in Google Chromebooks that are available for student use; Utah schools report having approximately 155,000 more Google Chromebooks available for student use in 2019 than they did in 2017.
- Three out of 10 Utah schools (30%) have established some type of 1:1 mobile device program, up from 19% in 2017 and only 11% in 2015.
- LEAs report spending anywhere from nearly 3,800 hours to as little as one hour per week on technical support. Altogether, Utah LEAs own an average of 1,212 computing devices for every full-time equivalent (FTE) technical support employee, including staff and contractors. Meanwhile, schools report an average of 145.3 classroom teachers (full-time and part-time) per FTE instructional technology support staff.
- Between 2015 and 2019, the number of schools that offer Wi-Fi access via the 802.11ac protocol increased by nearly 60 percentage points, while those that still provide Wi-Fi service using 802.11b or other legacy standards (the slowest of the current Wi-Fi protocols) decreased by approximately 14 percentage points, with no significant changes from 2017.
- The majority of schools (53%) report that their Wi-Fi networks were designed by in-house professionals, while an additional 24% said their network was designed by outside contractors. Statewide, though, more than one in five schools said they had Wi-Fi networks that had not been professionally designed.

- Fifty percent of schools reported having wireless gear that was two years old or newer on average. This number is down slightly from 2017, yet the percent of schools reporting that their wireless gear was four years old or more decreased by eight percentage points since 2017.
- Wired hardware in Utah schools tends to be several years older than wireless gear on average. Two out of five schools report that their wired hardware is more than four years old on average. Meanwhile, only 5% said their wired hardware is newer than one year old on average, which is a decrease by more than half since 2017.
- A significant majority of Utah charter schools and school districts listed Google Apps, Microsoft Office and Adobe Creative Suite among their top educational software tools used in their schools.
- The percentage of LEAs using the Canvas LMS platform jumped substantially between 2017 and 2019 from 28% to 60%.
- All Utah LEAs report that they use some type of Student Information System (SIS) tools to help track attendance, grades and other important statistics, with Aspire being the most commonly used platform.
- Nearly nine out of 10 schools statewide (87%) have obtained at least some digital textbook licenses (or they use licenses acquired by their district).



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# Inventory Results



## II. Inventory Results

The Utah School Technology Inventory included 66 questions posed to charter and district schools on topics ranging from computing devices; internet access; Wi-Fi connectivity; technology support; and both the current and anticipated use of a variety of digital learning tools.<sup>1</sup> The cumulative result of this year's inventory is over 71,000 new points of data on the use of technology across 1,018 K-12 schools, representing 100% of the public school universe in Utah. Upon final review and analysis of the data submitted, Connected Nation found meaningful results based on information submitted in 2019, as well as in the trends observed by comparing 2019 data to those obtained in 2015 and 2017. All data were collected, compiled and validated by Connected Nation.

### a. Computing Devices Available for Students and Educators

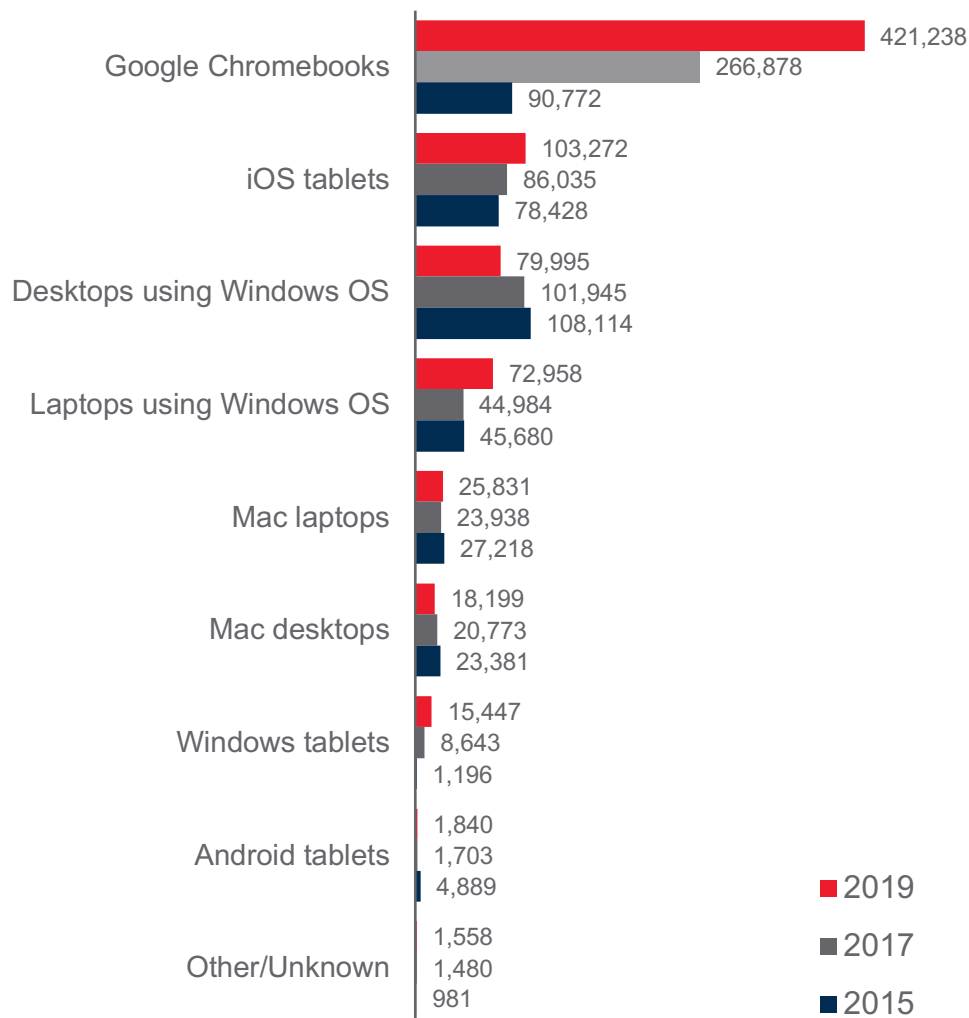
Across the state of Utah, students and educators are making technology access a priority. Districts and charter schools report that more than 740,000 computing devices are available to students in Utah schools, nearly 200,000 more than in 2017. This represents an average of 1.11 computing devices per student in 2019, an increase over the 2017 average of 0.84 devices per student and exceeding an average of one computing device per student in the state.

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<sup>1</sup> In this report, the term “*charter schools*” refers to public schools created by groups of parents, teachers or community leaders within the state of Utah. These charter schools have had their applications approved by the State Charter School Board or the board of a school district. They do not include home schools, private schools, schools where applications may be pending, or schools that are not yet approved.

Since 2015, laptop and tablet computers have become more popular, while desktop computers have declined in use. This shift is likely due to the lower cost, growing processing power and portability of these mobile devices. In particular, Google Chromebooks have seen a significant upsurge between 2017 and 2019 (Figure 1).

**FIGURE 1  
COMPUTING DEVICES AVAILABLE FOR STUDENT USE IN UTAH SCHOOLS**

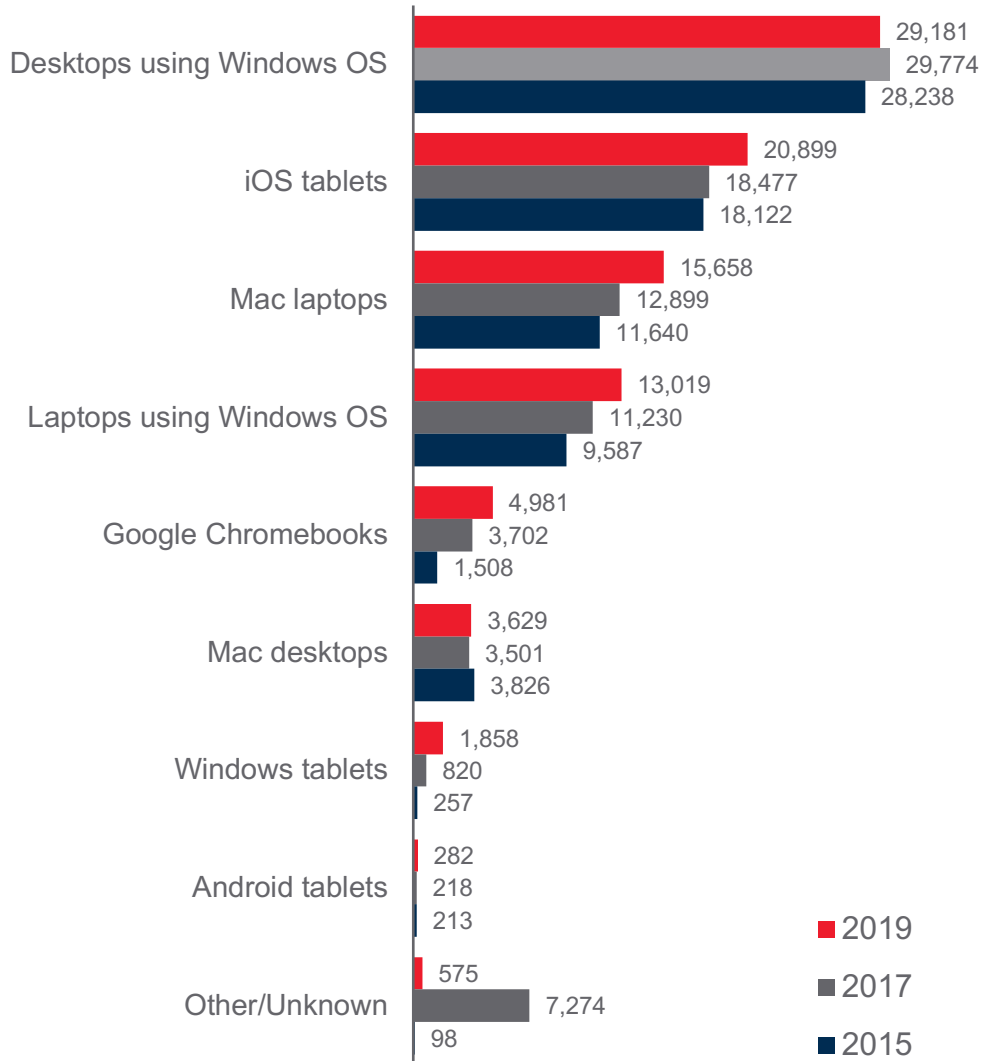


Since 2015, Utah schools have increased their investment in Google Chromebooks available for student use; Utah schools report having approximately 155,000 more Google Chromebooks available for student use in 2019 than was reported in 2017. Overall, tablets and laptops of every model are gaining ground in Utah schools; since 2017, the number of each type of tablet and laptop device has grown, while the use of desktop computers of every type has decreased.



The number of computing devices for teachers also has increased over the years to approximately 90,000 computers in 2019, compared to just under 88,000 in 2017 and fewer than 74,000 in 2015 (Figure 2).

**FIGURE 2  
COMPUTING DEVICES AVAILABLE FOR EDUCATOR USE**



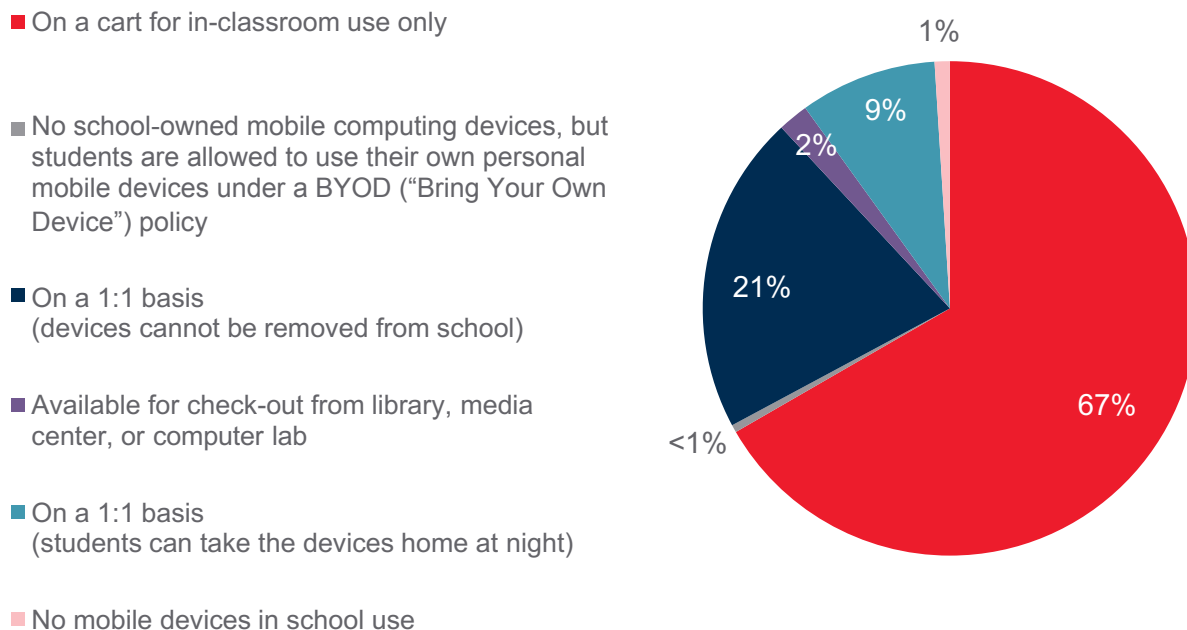
For educators, desktop computers running Windows operating systems are still the most widely used computing device, a trend that has continued since 2015. Meanwhile, tablets running Apple iOS are the most popular choice among portable computing devices for educators.

Across Utah schools, the number of portable computing devices such as laptops and tablets is growing at a faster rate than the number of desktop computers. Meanwhile, nearly two out of three schools (64%) report that their educators have their own wireless network, separate from the one used by students or (in some cases) the community.

### b. Mobile Device Deployment Policies in Utah Schools

Utah schools have deployed mobile devices for their students in varying ways (Figure 3).

**FIGURE 3  
MOBILE DEVICE DEPLOYMENT POLICIES IN UTAH SCHOOLS**



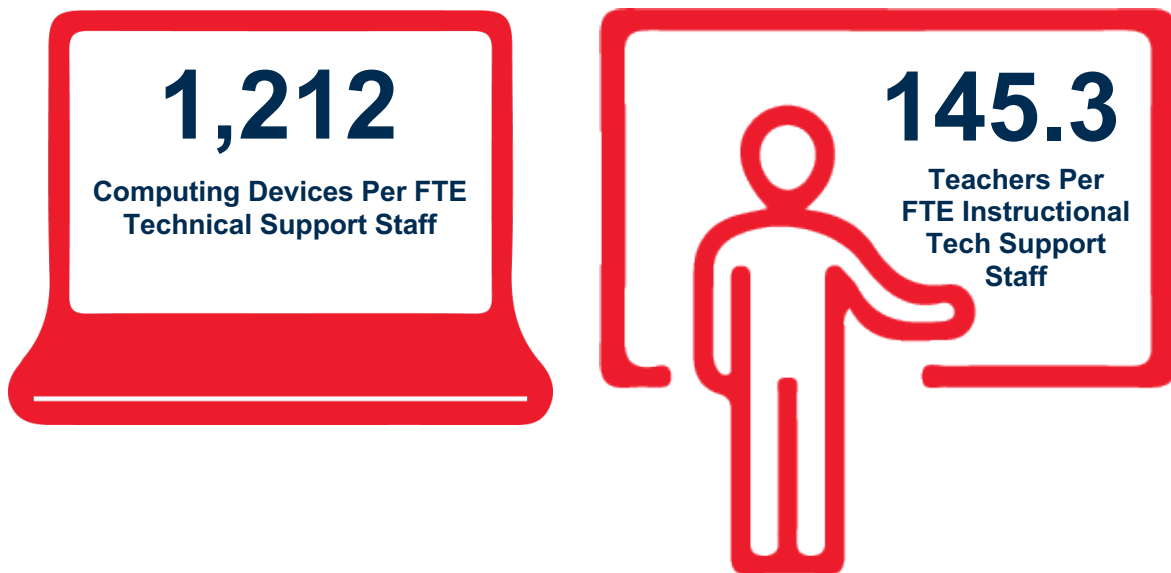
Statewide, two out of three Utah schools offer mobile devices to students via a cart that is used in a classroom or shared by several classes. More than one in five Utah schools (21%) offer their students mobile devices on a 1:1 basis through which the devices remain at the school, while an additional 9% allow their students access to mobile devices on a 1:1 basis under agreements by which students can take their devices home after school hours. Combined, this means that three out of 10 Utah schools (30%) have established some type of 1:1 mobile device program, up from 19% in 2017 and only 11% in 2015.

### c. Technology Support Staffing in Utah Schools

To maintain the technology on which Utah students and teachers rely, schools require technical support professionals who are properly trained to diagnose and resolve any issues that may arise, as well as those who can advise administrators on technical improvements that may be needed. Schools also require employees and contractors who are equipped to provide instructional technology support to teachers in the classroom. These individuals handle tasks such as leading professional development training and coaching teachers on how to maximize the capabilities of various software and hardware to have a positive impact on student learning outcomes. For many schools, these tasks would be impossible without the support and assistance of volunteers in the community, whether that includes community members who are experts in the use of a certain type of technology, or teachers and administrators volunteering their time to help their peers understand how to best use technology in their schools.

Statewide, LEAs report that they own a total of more than 830,000 computing devices for teachers and students to use. Meanwhile, the number of hours that LEAs dedicate toward tech support for those computers varies depending on the district size, the number of computers it uses, and a number of other factors; as a result LEAs report spending anywhere from nearly 3,800 hours to as little as one hour per week on technical support. Altogether, Utah LEAs own an average of 1,212 computing devices for every full-time equivalent (FTE) Tech Support Staff, including employees and contractors (Figure 4).

**FIGURE 4  
FULL-TIME EQUIVALENT (FTE)  
TECHNICAL SUPPORT IN UTAH SCHOOLS**

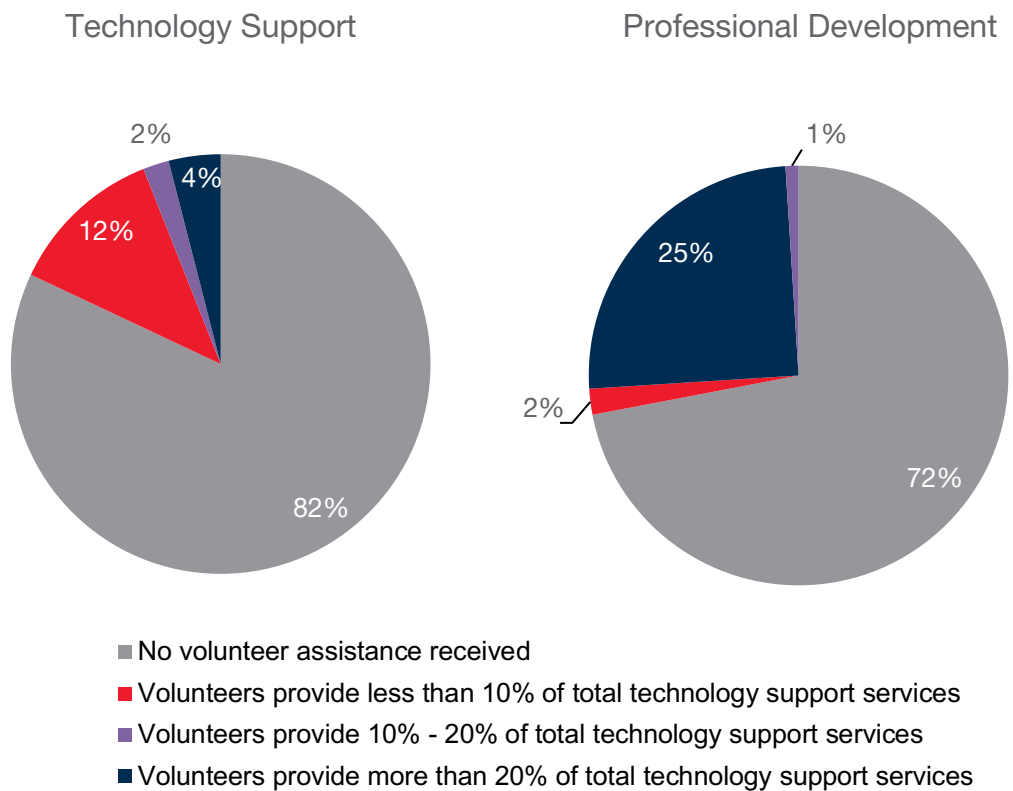




Many LEAs also lean on support from volunteers, either teachers or others in the community who are familiar with computer and software technology. In addition to teaching educators how to use software, these volunteers also provide IT support for hundreds of schools.

Across Utah, 18% of schools benefit from at least some volunteer assistance with technical support, while more than one in four (28%) get volunteer assistance with professional technology development (Figure 5).

**FIGURE 5  
PERCENT OF UTAH SCHOOLS  
THAT BENEFIT FROM VOLUNTEER TECHNOLOGY SUPPORT ASSISTANCE**



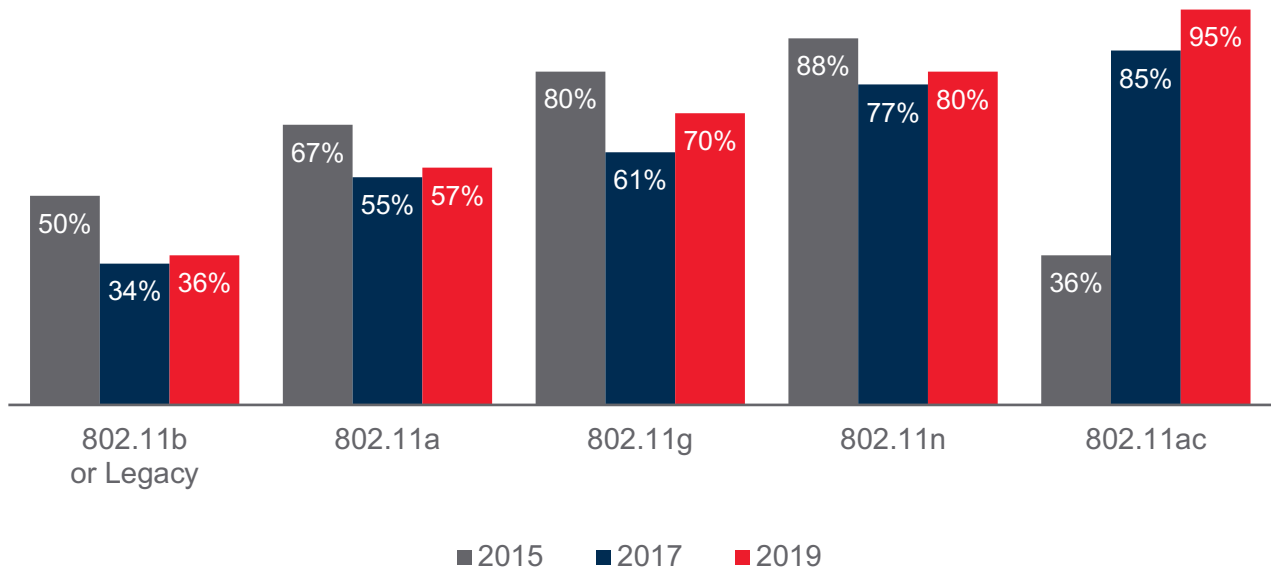
**d. Wi-Fi Access**

To accommodate this growth in wireless devices, Utah schools are increasing the number of Wi-Fi access points in each classroom and educational space. Because each school faces its own unique challenges, each must follow its own strategy to ensure that wireless access is provided in an efficient manner that will meet the needs of its students, as well as its community. As a result, Wi-Fi access continues to increase — meaning faster and more reliable internet service for a greater number of students.

## 1. Wi-Fi Protocols Used in Utah Schools

The vast majority of Utah schools offer Wi-Fi via access points that employ the 802.11ac protocol, the fastest currently available, offering hypothetical download speeds of up to 1.73 Gbps from the access point to end-user (Figure 6). On the other hand, slightly more than one-third of schools still rely on Wi-Fi access via older protocols that may offer less than one-tenth of the speeds offered by 802.11ac technology.

**FIGURE 6**  
**UTAH SCHOOLS USING EACH WI-FI PROTOCOL**



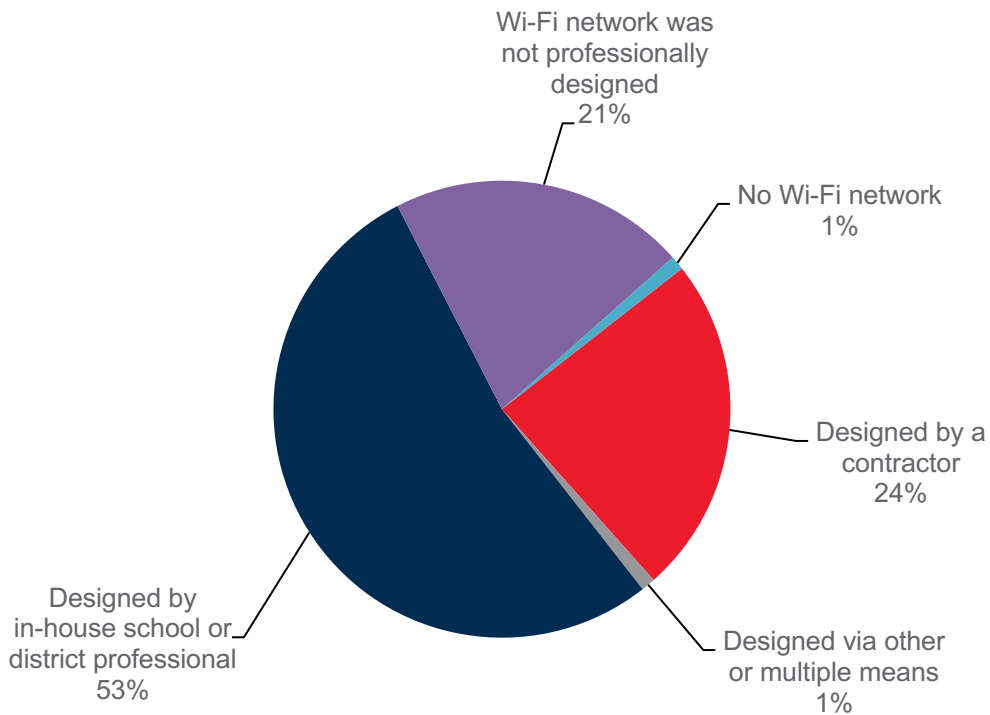
In addition, educators must understand how to best utilize the technology tools they are provided; that job is the duty of the instructional tech support staff. Utah schools report an average of 145.3 classroom teachers (full-time and part-time) per FTE instructional technology support staff.

Between 2015 and 2019, the number of schools that offer Wi-Fi access via the 802.11ac protocol increased by nearly 60 percentage points, while those that still provide Wi-Fi service using 802.11b or legacy standards (the slowest of the current Wi-Fi protocols) decreased by approximately 14 percentage points, with no significant changes from 2017.

## 2. How School Wi-Fi Networks Were Designed

In addition to the unique needs faced by each Utah school, every school used different methods of designing their Wi-Fi networks. While some hired outside contractors, others relied on in-house experts to design and optimize the networks that provide wireless internet service to their students (Figure 7).

**FIGURE 7  
HOW SCHOOL WI-FI CONNECTIONS WERE DESIGNED**

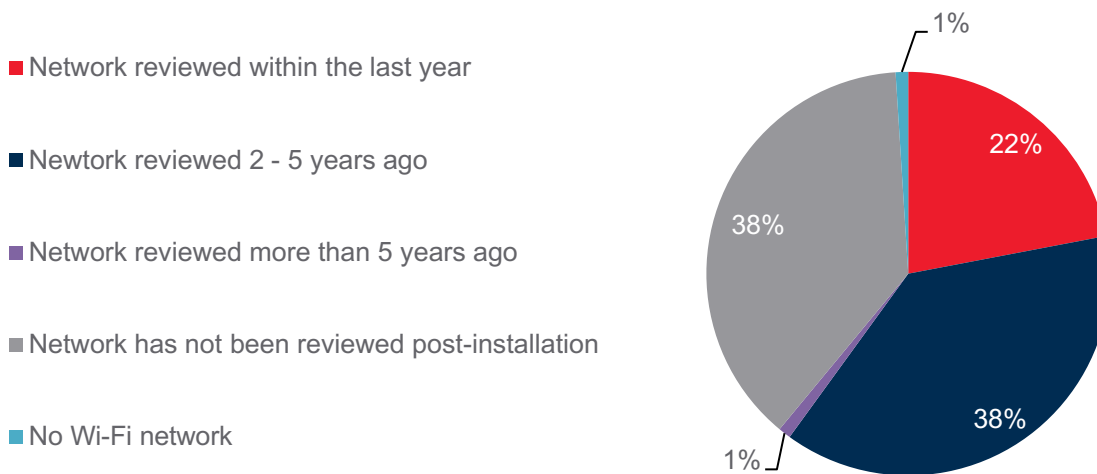


The majority of schools (53%) report that their Wi-Fi networks were engineered by professionals who work for their LEA, while an additional 24% said their network was designed by outside contractors. Statewide, though, more than one in five schools said they had Wi-Fi networks that had not been professionally engineered.



Schools must not only design and build their Wi-Fi networks, they also must maintain them. To that end, most schools carry out regular maintenance reviews to ensure that the quality of the network is top-notch (Figure 8).

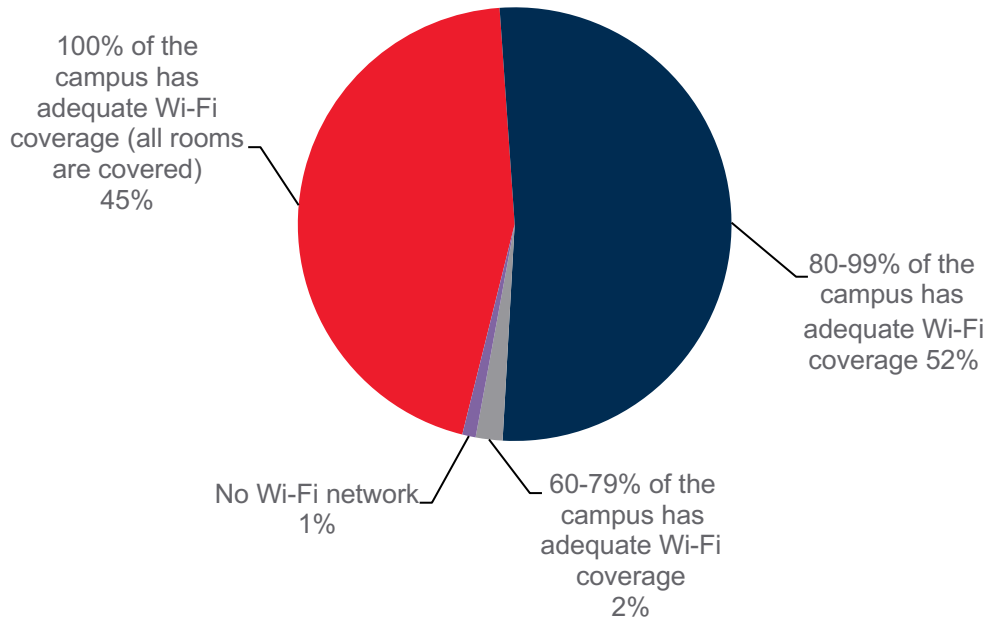
**FIGURE 8**  
**WHEN UTAH SCHOOLS HAD THEIR WI-FI NETWORKS REVIEWED**



Among the schools that have *not* conducted post-installation validation surveys, one in three (34%) report that their wireless gear is less than two years old on average — indicating that their network may be too new to warrant such a review.

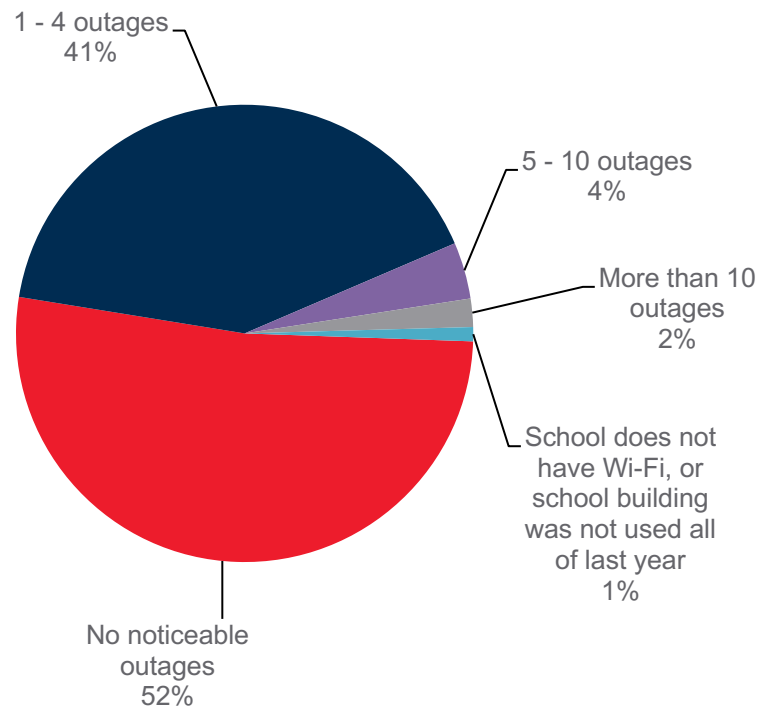
For the majority of schools, this continued assessment and refinement of their Wi-Fi networks has resulted in coverage that reaches across their entire campus (Figure 9). More than nine out of 10 schools report that at least 80% of their buildings are covered by their current Wi-Fi network.

**FIGURE 9**  
**PORTIONS OF SCHOOL BUILDINGS COVERED BY ADEQUATE WI-FI**

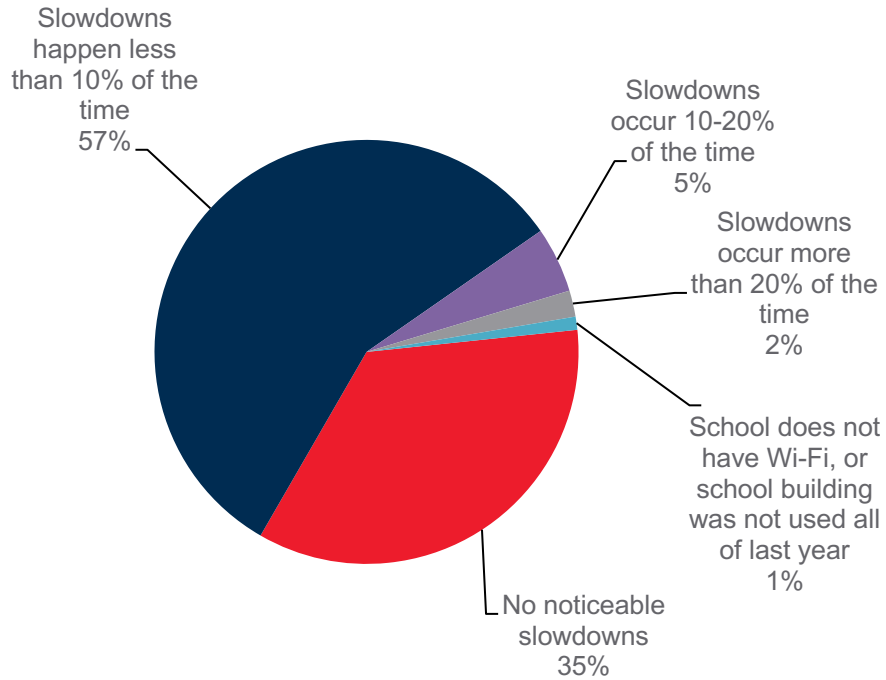


When asked about the reliability of the Wi-Fi connections at each school, the majority said they had no noticeable losses of Wi-Fi connectivity in the last year, and more than one in three said they experienced no significant slowdowns or degradations in the quality of their Wi-Fi connectivity in the last year (Figure 10).

**FIGURE 10  
PERCENT OF UTAH SCHOOLS  
REPORTING WI-FI CONNECTIVITY OUTAGES LAST YEAR**



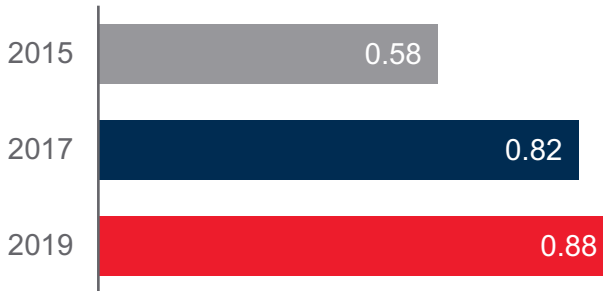
**FIGURE 11**  
**PERCENT OF UTAH SCHOOLS**  
**REPORTING NOTICEABLE WI-FI SLOWDOWNS LAST YEAR**



### 3. Wi-Fi Access Points

In 2019, Utah schools report having 0.88 wireless access points per classroom or instructional space, continuing the upward trend of network densification from 0.58 access points per classroom in 2015 and 0.82 in 2017 (Figure 12).

**FIGURE 12**  
**WI-FI ACCESS POINTS PER CLASSROOM INSTRUCTIONAL SPACE**



Statewide, just over one-third of Utah schools (36%) report that they have at least one AP per classroom or instructional space, down from 2017 when 46% of schools reported the same.

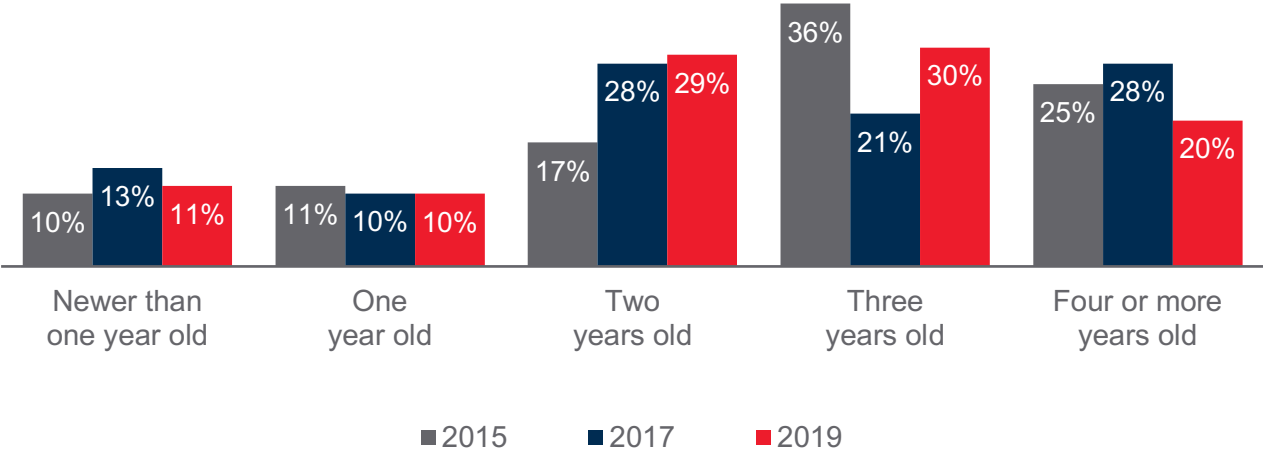
While the ratio of one AP per classroom provides a simple means of measuring access point density — and to a certain extent, coverage — it is not necessarily an optimal standard or target for any given school. Proper access point distribution is best determined by a qualified engineer’s assessment of the school floor plan, its building materials and the capabilities of Wi-Fi equipment in use. Some LEAs have undertaken exhaustive measures to determine the optimal placement of their APs, and for those schools, a network with one AP per classroom may not be optimal, economical or prudent. These factors should be taken into account when assessing the quality of any school’s Wi-Fi network.

#### **e. Hardware Age in Utah Schools**

When asked the average age of the wireless hardware in each school, half of all schools (50%) reported having wireless gear that was two years old or newer (Figure 13). This number is down slightly from 2017, yet the percent of schools reporting their wireless gear was in the oldest age bracket also decreased by 8% since 2017.

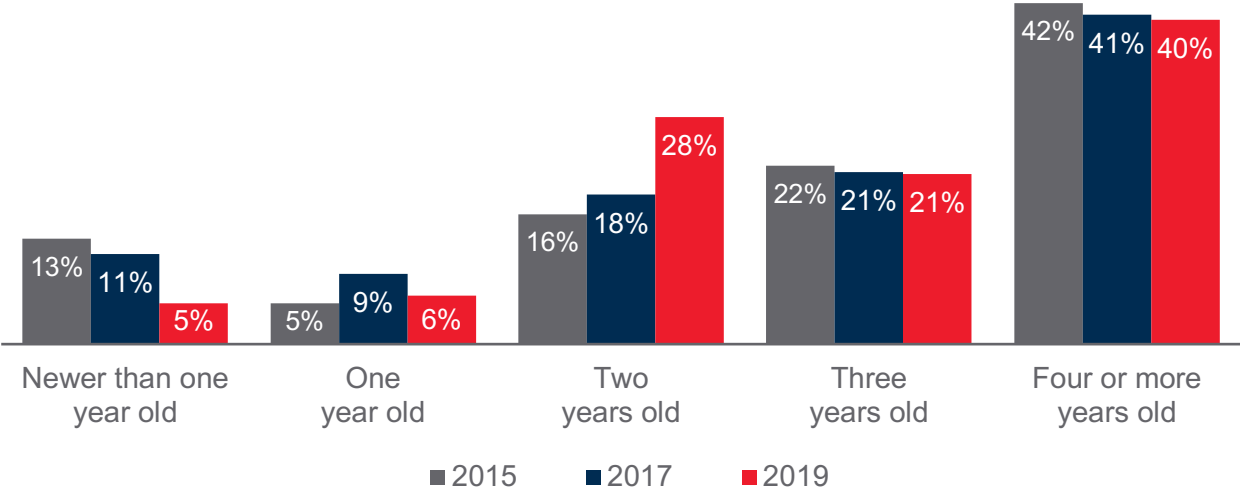


**FIGURE 13  
AVERAGE AGE OF WIRELESS HARDWARE IN UTAH SCHOOLS**



By comparison, wired networking gear in Utah schools tends to be several year older on average. Two out of five schools report that their wired hardware is more than four years old on average (Figure 14). Meanwhile, only 5% said their wired hardware is newer than one year old on average, which is a decrease by more than half since 2017.

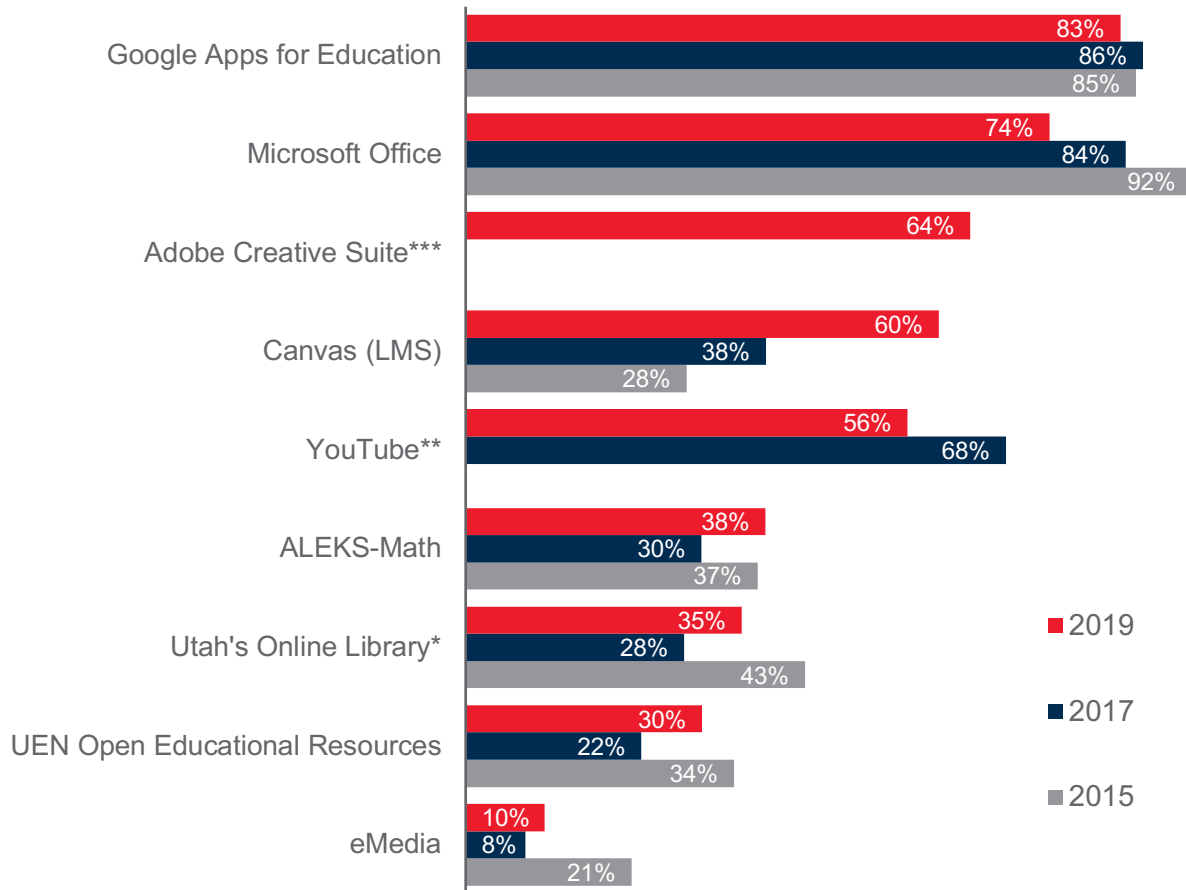
**FIGURE 14  
AVERAGE AGE OF WIRED HARDWARE IN UTAH SCHOOLS**



## f. Educational Software Tools Used by Utah Schools

A significant majority of Utah charter schools and school districts listed Google Apps, Microsoft Office and Adobe Creative Suite among their top educational software tools used in their schools (Figure 15).

**FIGURE 15  
TOP EDUCATIONAL SOFTWARE TOOLS IN UTAH**



\*Previously "Pioneer Online Library"

\*\*Option not offered in 2015

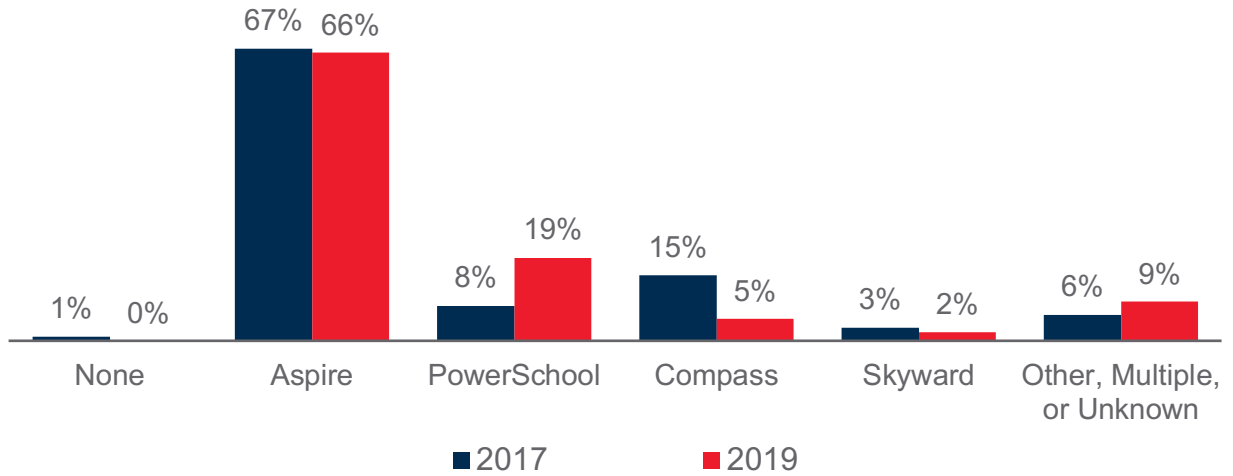
\*\*\*Option not offered in 2015-2017

The percent of LEAs using Canvas learning management system (LMS) jumped substantially between 2017 and 2019.<sup>2</sup> While more than half of LEAs still use YouTube for their educational needs, that percentage has decreased since 2017, as has the share of LEAs where Microsoft Office is considered a top educational tool.

<sup>2</sup>Note that LEAs were asked to report on software at the district level. As such, if even one school used a particular software package, the LEA was asked to report that usage at the district level.

Every Utah LEA reports that it uses some type of Student Information System (SIS) tools to help track attendance, grades and other important statistics. Utah’s Aspire SIS is the most widely used, followed by a handful of other systems (Figure 16).

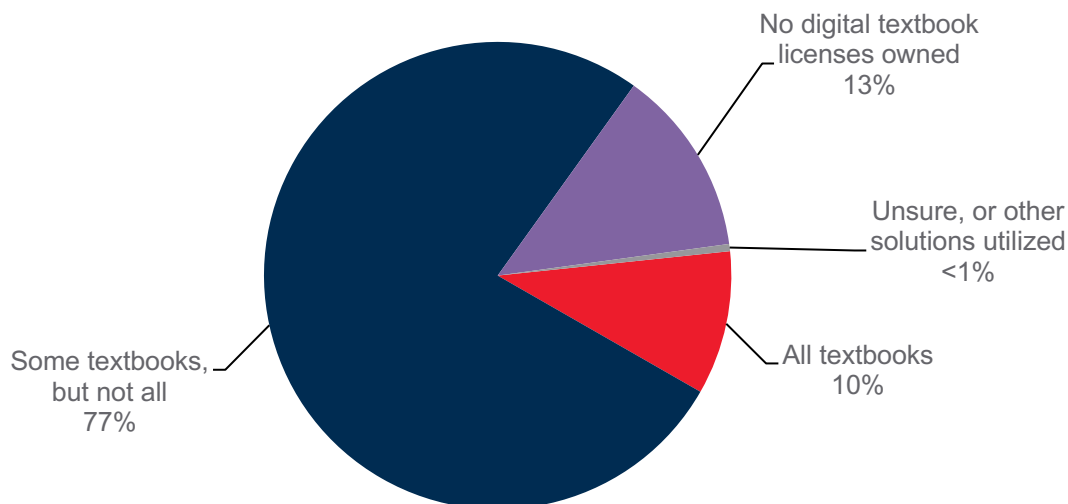
**FIGURE 16**  
**STUDENT INFORMATION SYSTEMS USED BY UTAH SCHOOLS**



### g. Licenses Owned for Digital Textbook Content

As schools incorporate digital technology in their classrooms, one key component to that transition is the acquisition of digital licenses for textbooks and related learning tools. These licenses allow teachers to access textbooks digitally or to supplement lessons from the textbooks with additional examples, as well as augment lesson plans in other ways that can help material come alive for students. For that reason, many schools are turning to online resources to complement or replace physical textbooks, at least in some subject areas (Figure 17).

**FIGURE 17**  
**SCHOOLS OWNING\* DIGITAL TEXTBOOK LICENSES**

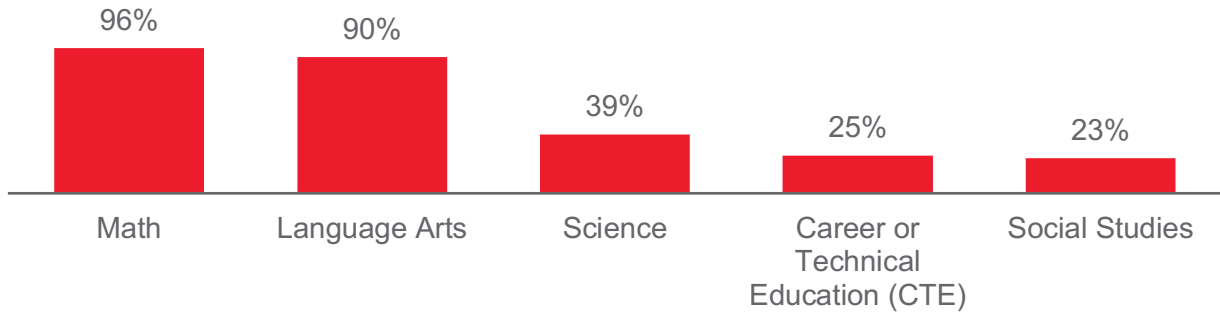


\*Includes schools where licenses are owned by the district

Nearly nine out of 10 schools statewide (87%) have acquired at least some digital textbook licenses, or they use licenses owned by their school district. Some schools employ other solutions, such as seeking out digital lesson tools that are available for free or in the public domain. Slightly more than one in eight schools (13%) say they or their districts have not acquired any digital textbook licenses.

Among those schools that own digital licenses for select textbooks, the most popular subjects for digital textbook licenses are math and language arts, followed by science, social studies and career or technical education (Figure 18).

**FIGURE 18**  
**DIGITAL TEXTBOOK LICENSES**  
**AMONG SCHOOLS THAT DO NOT OWN LICENSES FOR EVERY SUBJECT**

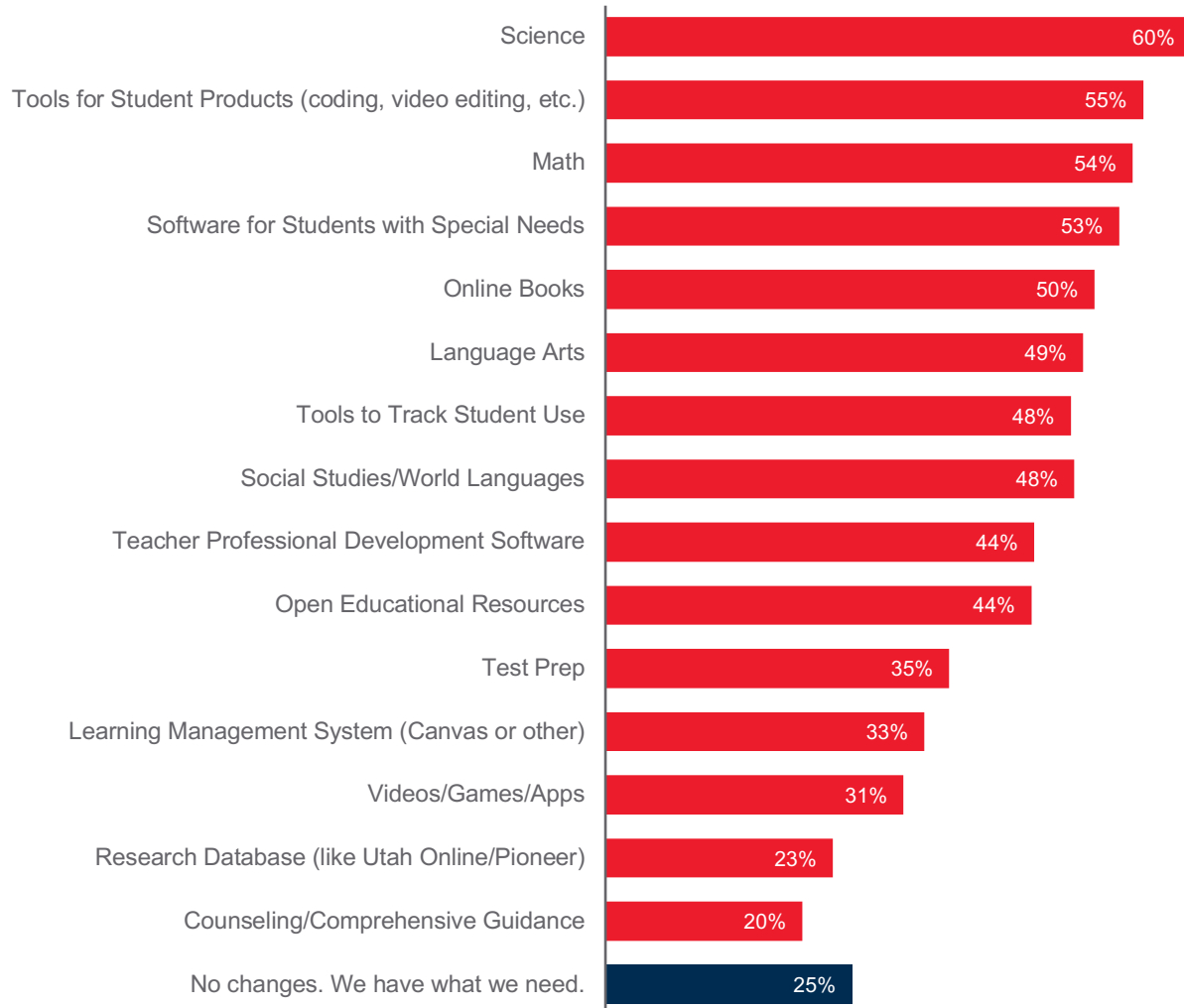




## h. Instructional Software Needs

Schools also identify a variety of instructional software and tools that would benefit them and their students (Figure 19).

**FIGURE 19**  
**SCHOOLS REPORTING A NEED FOR DIGITAL TOOLS AND SOFTWARE**



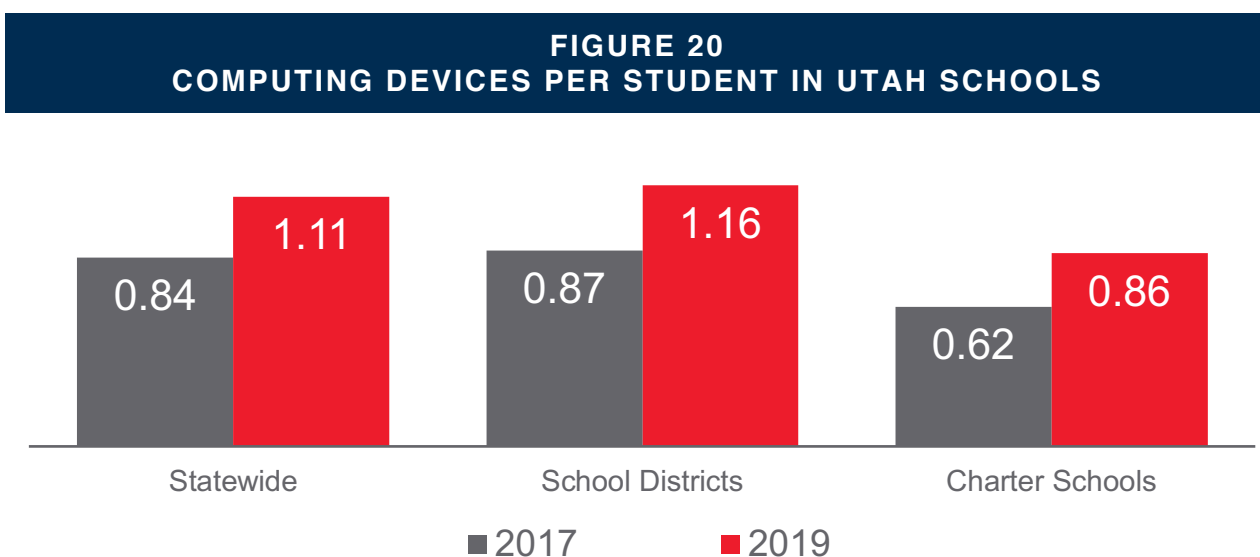
One out of four Utah schools (25%) say they do not see a need for any change and that they have no unmet needs for software or digital tools. Among those that did report educational software needs, the greatest demand was for science-related resources, tools to support student productions and online tools to assist in the development of math skills. Software to help students with special needs and online books also were noted by at least half of Utah schools.

Utah schools are split on whether adequate professional development and training resources are available in their respective budgets to assist teachers in effectively integrating mobile devices into their instructional practices. Just over half (51%) of schools say that they do believe that adequate resources are provided, while nearly as many (49%) feel that more can be done to improve these budgets.

### i. District-Charter Comparisons

Because funding, administrative practices and student populations differ between charter schools and school districts, there are several differences between the two groups in terms of technology as well.

One such difference is in the number of computing devices available per student. Statewide, Utah schools average 1.11 computing devices per student, up from 0.84 in 2017; charter schools report a significantly lower ratio than district schools (Figure 20).



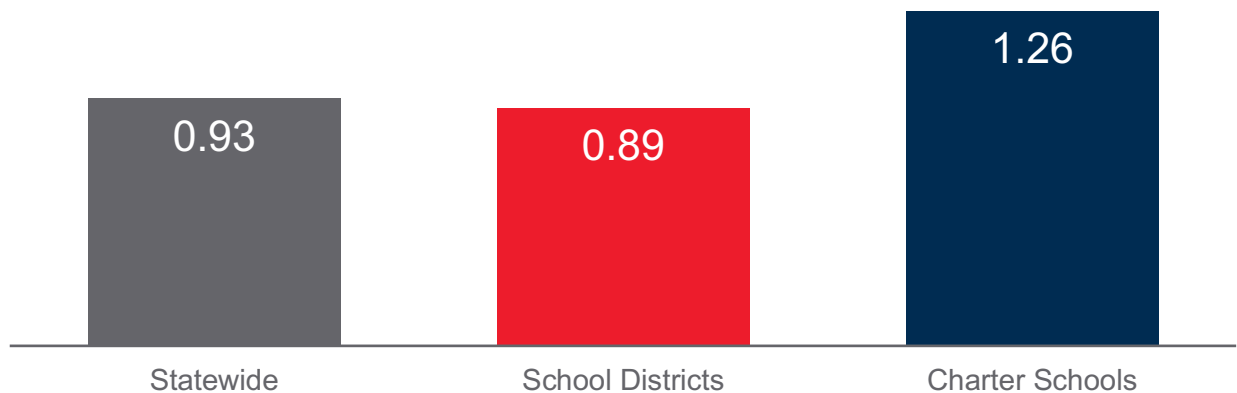
School districts and charter schools have both increased their computer-to-student ratio since 2017. Two years ago, school districts reported having 0.87 computing devices per student, and charter schools reported having only 0.62 computers per student, continuing an upward trend from 2015.

Charter and district schools alike provide their students with Google Chromebooks most often. The second most popular computing device in district schools is an Apple tablet running the iOS operating system, while among charter schools, Windows laptops rank second to Chromebooks.

To ensure these computing devices function at their optimal capacity, districts and charter schools both rely on an army of technical support staff, as well as instructional support staff who help make sure that educators know how to best utilize the software and hardware tools they have.

Across Utah, schools dedicate 0.93 Full-Time Equivalent (FTE) staff per 1,000 student computing devices each week (Figure 21). This includes those who are employed at individual schools, those who maintain computing systems district-wide, and contractor hours dedicated to providing technical support.

**FIGURE 21  
TECHNICAL SUPPORT FTE PER 1,000 STUDENT DEVICES**

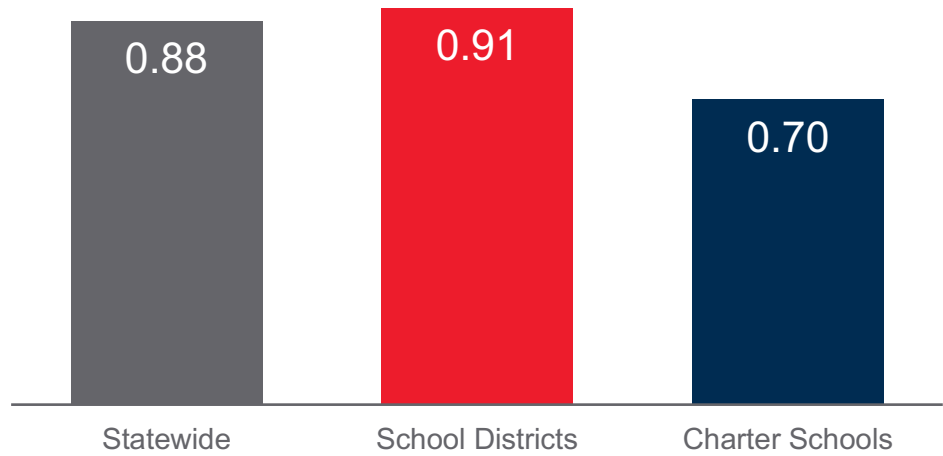


Charter schools dedicate 1.26 FTE per student computing devices per week, compared to 0.89 among district schools.

Both charter and district schools are equally likely to receive volunteer assistance for their technical support needs; 18% of district schools say they rely on volunteers for some of their technical support needs, compared to 17% of charter schools.

Both charter schools and public schools have made wireless internet available in their classrooms (Figure 22).

**FIGURE 22**  
**AVERAGE NUMBER OF WIRELESS ACCESS POINTS PER CLASSROOM**

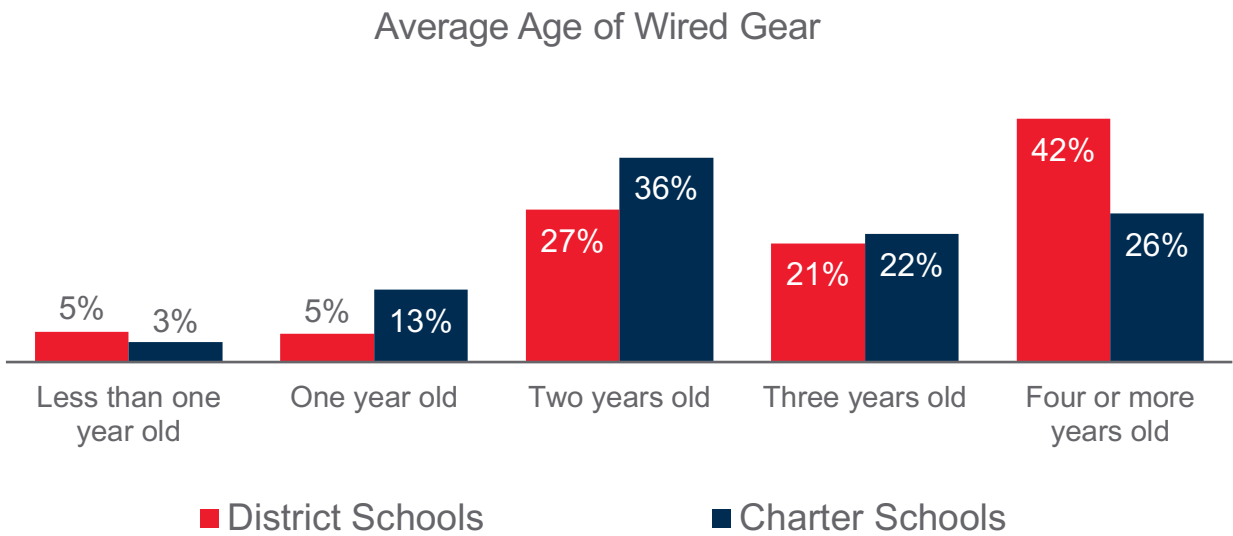
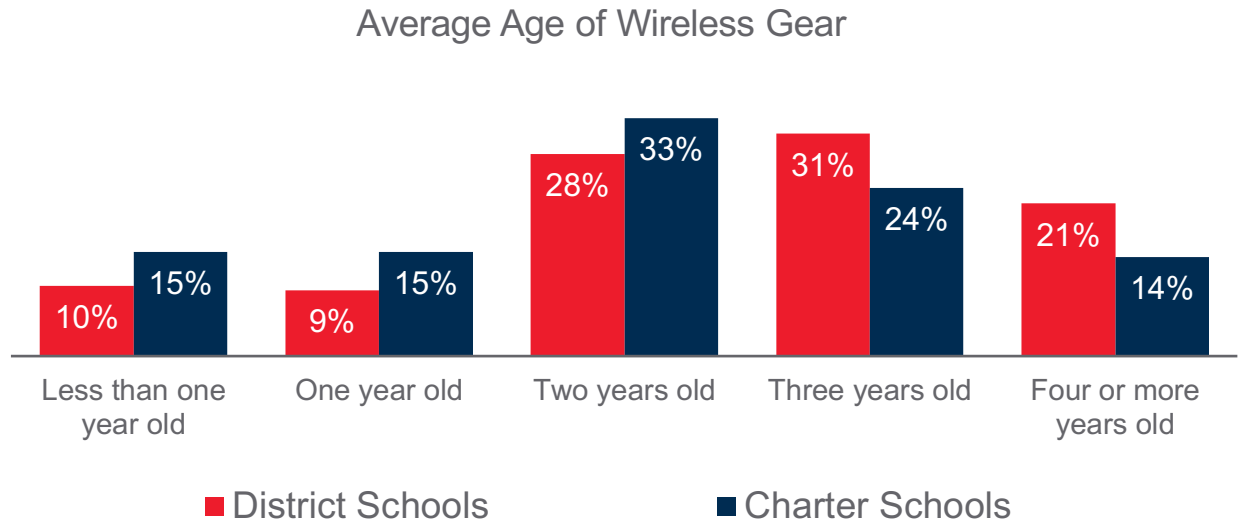


Utah district schools report having an average of 0.91 Wi-Fi access points per classroom or educational space, compared to 0.70 among charter schools.

These ratios have all increased since 2017, and it should be noted that a ratio of one AP per classroom isn't necessarily the optimal target for AP distribution, which is best determined through a proper engineering analysis that takes into account such factors as building construction, equipment capabilities and band/channel management. For example, 72% of charter schools say that all of their classrooms are covered by adequate Wi-Fi service, compared to only 42% of district schools who report the same.

District schools in Utah are also relying on older wired and wireless equipment, in general (Figure 23).

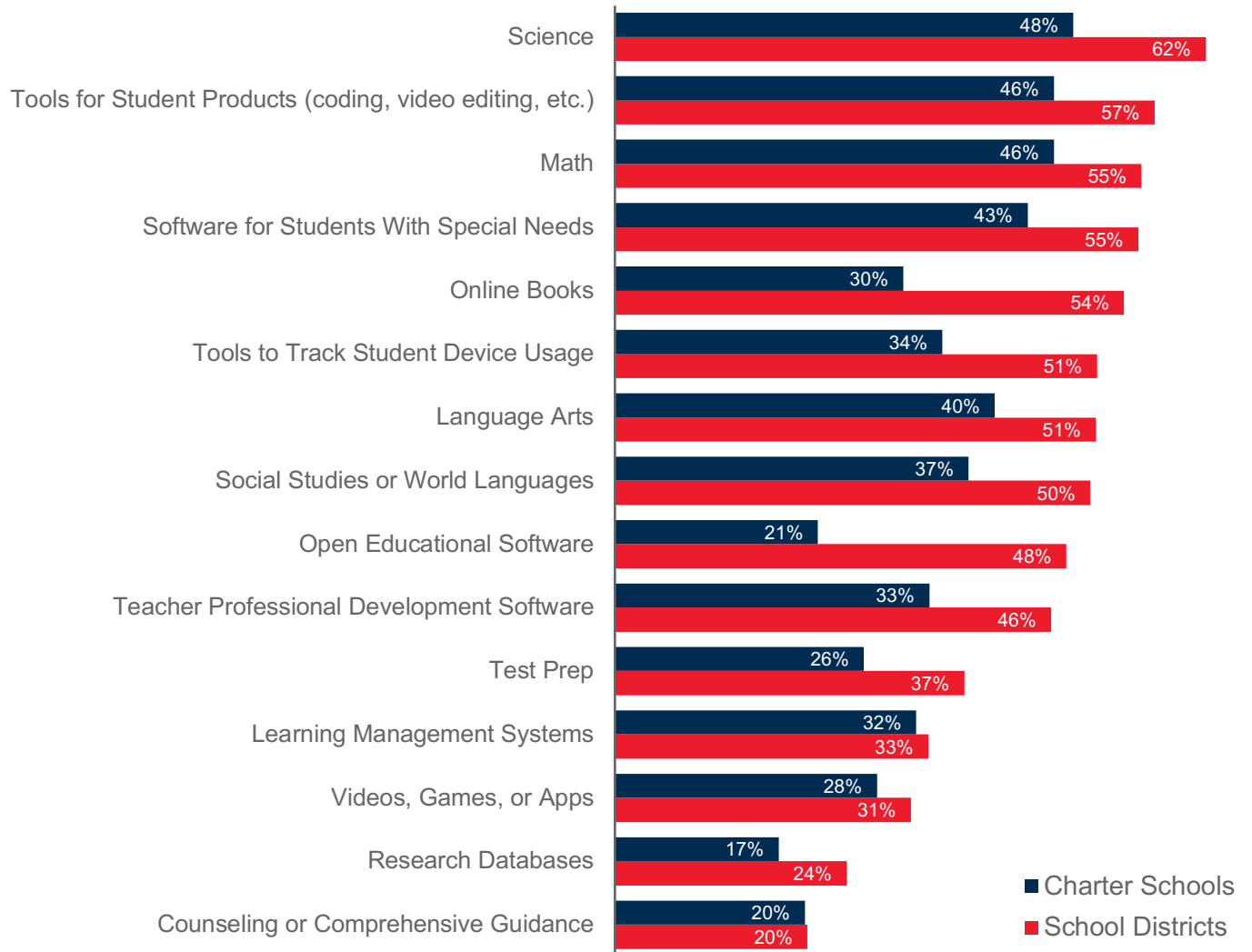
**FIGURE 23  
AVERAGE AGE OF WIRELESS AND WIRED GEAR IN SCHOOLS**



A larger share of Utah district schools report having both wireless and wired gear that is four years or older on average.

Utah school districts are also more likely to identify additional instructional software needs (Figure 24).

**FIGURE 24  
TOOLS AND SOFTWARE NEEDED BY SCHOOL DISTRICTS  
AND CHARTER SCHOOLS**

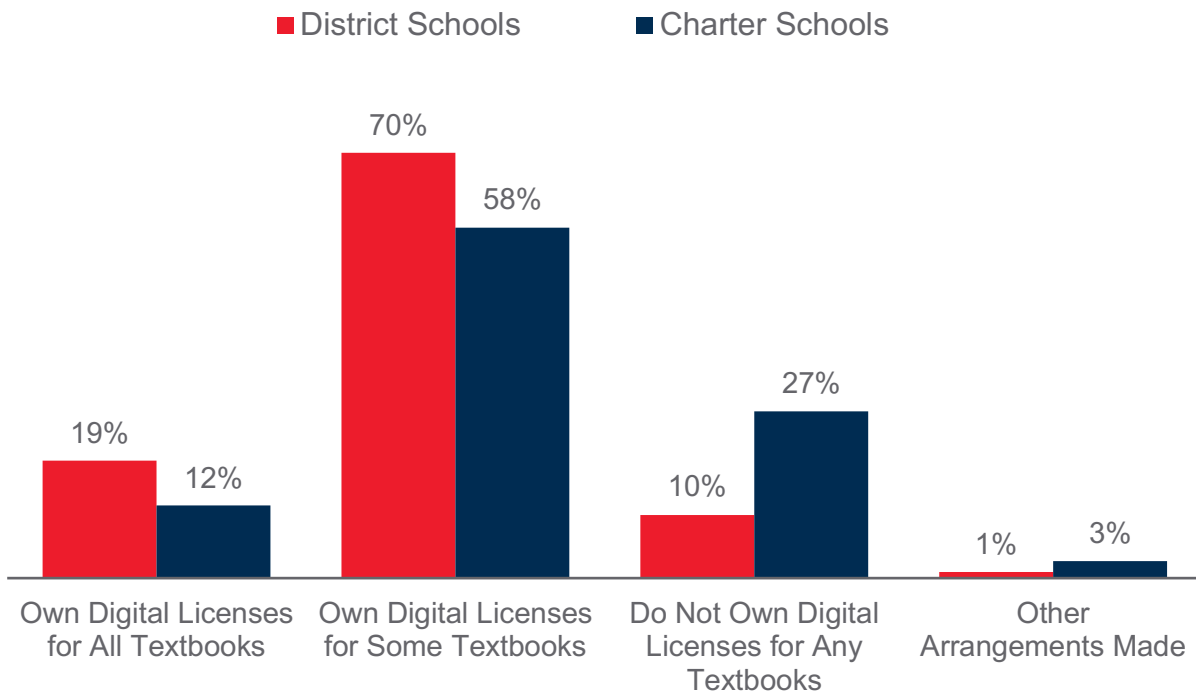


A larger share of district schools in Utah report needing software tools of every stripe. The demand for these tools has increased among both charter and district schools since 2017.



Despite this gap, Utah district schools are more likely to have digital textbook licenses (or use digital textbooks under licenses owned by their districts). Nearly one in five Utah district schools (19%) have digital licenses for all of their textbooks, compared to only 12% of charter schools (Figure 25).

**FIGURE 25**  
**DIGITAL CONTENT LICENSE AGREEMENTS IN UTAH SCHOOLS**



By comparison, more than one-quarter of Utah charter schools do not have any digital textbook licenses, compared to only 10% of district schools in the same situation.

03

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# Inventory Overview and Methodology



## III. Inventory Overview and Methodology

Since 2015, Connected Nation and UETN have partnered to complete three successful iterations of the Utah School Technology Inventory (in 2015, 2017 and 2019), capturing robust data from every public school in Utah. Unique to the 2019 inventory was the development of a new data collection portal that included months of research and development complete with focus groups and surveys on ideal functions.

In both the portal development and data gathering portions of the Utah School Technology Inventory, Connected Nation continued to focus efforts on several key priorities that proved essential to project success.

<b>Relationship Management</b>	Identifying key points of contact and building relationships that result in effective and timely participation.
<b>Project Management</b>	Competently managing processes, reports, and deliverables throughout the duration of the project, especially given the short timeline.
<b>Portal Development</b>	Designing an online data gathering interface that was simple for schools to use and project personnel to administer.
<b>Data Collection Design</b>	Leveraging Connected Nation's previous school technology survey and data collection experience to develop a data collection process that was efficient and effective.
<b>Communications</b>	Developing an effective internal and external communications plan that efficiently garnered school participation.
<b>Sustainability Planning</b>	Ensuring that sustainable tools and processes were developed that will support future data collection cycles by UETN.

With these priorities in mind, the project plan was designed to include a number of distinct phases from building the portal from the ground up, to identifying initial points of contact, compiling results from 1,108 schools serving nearly 668,000 students.

<b>UTAH 2018-2020</b>	
<b>PHASE I</b> MAY 15, 2018 – AUG 30, 2018	<ul style="list-style-type: none"> <li>• Review of School Technology Inventory Process and Portal Redesign</li> <li>• Meetings with School District/Charter Advisory Group</li> <li>• Review of Options for Data Collection Tool</li> </ul>
<b>PHASE II</b> SEP 26, 2018 – DEC 16, 2019	<ul style="list-style-type: none"> <li>• Release of Request for Quote and Vendor Selection</li> <li>• Development of Custom UETN School Technology Inventory Portal</li> </ul>
<b>PHASE III</b> JUN 6, 2019 – OCT 4, 2019	<ul style="list-style-type: none"> <li>• Inventory Launch Planning and Update</li> <li>• Communication Strategy Update</li> <li>• Local Point of Contact Identification</li> </ul>
<b>PHASE IV</b> OCT 7, 2019 – DEC 17, 2019	<ul style="list-style-type: none"> <li>• Portal Launch</li> <li>• Initial Data Collection</li> <li>• Preliminary Report Development and Presentation</li> </ul>
<b>PHASE V</b> NOV 25, 2019 – JAN 3, 2020	<ul style="list-style-type: none"> <li>• Finalize Data Collection Across All Districts and Charters</li> <li>• In-Person Site Visits to Non-responsive Districts and Charters</li> </ul>
<b>PHASE VI</b> JAN 3, 2020 – FEB 21, 2020	<ul style="list-style-type: none"> <li>• Compilation and Summary of Findings</li> <li>• In-Person Presentation to the UETN Board</li> </ul>

Culminating with the delivery of this final report and complete dataset, Connected Nation delivered a new, streamlined and fully functional collection portal, an updated survey design, an effective communications and outreach strategy (which garnered participation from every public school in the state), and a preliminary report of findings. Each of these elements contributed to a successful 2019 inventory project overall and are described in greater detail below.

### **a. Survey Design and Portal Development**

In the 2015 and 2017 inventory iterations, Connected Nation and UETN used a customized off-the-shelf data collection portal that, while effective, had many limitations, particularly as it related to the process flow for how school and district users could input the requested information. As a result, in 2018, UETN engaged with Connected Nation to plan for and build a new data collection portal from the ground up.

At the onset of that exercise, UETN and CN brought together a focus group composed of stakeholders that participated in previous inventories. Via live discussion and the completion of an online survey, these stakeholders provided extremely valuable input that influenced the design and process flow that would be incorporated into the new platform. Additionally, Connected Nation and UETN reviewed numerous other off-the-shelf inventory tools in the marketplace and concluded that all available school inventory management systems did not properly align with the specific needs of this state-level project. The team concluded that the best path forward would be to build a new custom portal that would address the needs of all stakeholders and support the execution of future inventories for many years to come.

Consistent with the original portal, the new system provides user-friendly functions such as a “save-and-return-later” functionality, as well as pre-populated data. Districts and charter schools were asked to fill out a profile for district-wide (or equivalent LEA authority) information, including contact information, number of schools administered by the entity, aggregate enrollment and staff data, and applications and assessment solutions that are in use across all schools in their respective jurisdictions. For tracking purposes, each LEA supplied its unique identification number that is assigned by the U.S. Department of Education’s National Center for Education Statistics (NCES).

The district or charter entity also was asked to create school-level profiles for each school that it administers. School profiles consisted of identifying information, a series of questions on wireless and hardware assets, perceived software and support needs and more — as detailed in the report’s findings above.

Unique to the redesigned portal is, among other things, the ability for district-level users to assign multiple user log-ins under the same master account — allowing for the delegation of data-gathering to school-specific points of contact. Additionally, the new portal allows a district to move freely among schools and edit responses at-will, rather than having to sequentially complete a school profile fully before being permitted to move on to the another school.

Overall, the new portal functioned as intended, with 100% of district and charter LEAs electing to use the portal itself for data entry rather than the optional pre-formatted Excel spreadsheet that had been used by larger districts in previous iterations of the inventory. Overall, users reported great satisfaction with the new design and its ease of use.<sup>3</sup>

## **b. Outreach**

The continued success of the Inventory can largely be attributed to supportive school and district points-of-contact. Schools were asked to submit data during the end-of-semester testing period and pre-holiday/winter break season — all of which presented numerous competing priorities for local technology staff. To assist and offer support to schools and districts, UETN and Connected Nation engaged in a number of outreach activities, including on-site visits, personal emails and calls, and social media outreach to facilitate timely participation.

### **i. Regional Data Collection Managers**

In December, Connected Nation deployed two data collection managers on the ground in Utah, assigned to specific designated regions, to facilitate local outreach. The data collection managers assisted smaller charter schools, many of which had very limited resources available to dedicate to the inventory. They also assessed much larger districts that faced the daunting task of amassing large amount of data to submit. By providing a one-on-one support system for points of contact, all remaining data were collected for a comprehensive and all-inclusive statewide analysis of school technology.

### **ii. Communications Efforts**

In addition to word-of-mouth communications and on-site visits, UETN partnered with Connected Nation to develop a communications plan that would further supplement the ongoing data collection efforts. Through effective outreach strategies to build

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<sup>3</sup> In 2015 and 2017, several districts opted to submit data via a pre-formatted Excel spreadsheet rather than using the available portal.



awareness and increased participation, communications efforts aided the project in accomplishing its goal of 100% participation and understanding of why the inventory is important for Utah’s schools. Strategies employed included:

### **Conference Calls and Webinars**

Through frequent internal touch points between Connected Nation and UETN, from the project’s earliest stages until its conclusion, clear and consistent internal communication remained a priority and necessity. Connected Nation and UETN also hosted two demonstration webinars regarding the new data collection portal, which allowed school and district points of contact the opportunity to learn how to use the application and ask questions regarding the information being collected.

### **External Communications**

In order to increase visibility of the project, Connected Nation and UETN promoted the Utah School Technology Inventory across multiple media communications platforms including: UETN’s “News and Notables” page through [www.uen.org](http://www.uen.org), Facebook, Twitter and other communications channels.

Additionally, Connected Nation collaborated with UETN to launch a series of articles on why technology matters in the classroom. The series entitled “The Changing Classroom in Utah” highlighted how the use of technology in Utah classrooms has changed the way teachers teach and how students learn. The series also served as a reminder of why it was important for districts and charters to




Juab School District

participate in the school technology inventory. Connected Nation interviewed various stakeholders including district technology leadership, teachers and students to get their insights in Beaver, Weber, Alpine and Juab School Districts.

Connected Nation and UETN highlighted the series via their respective websites and social media. Below is a screenshot of the series page at <https://www.uen.org/schooltech/>

## Why School Technology Inventory Matters

Explore the "Changing Classroom in Utah" every Tuesday for the month of November. A series highlighting how the use of technology in Utah classrooms has redesigned the way teachers teach, and students learn. The series is also a reminder why it's important to complete this year's digital technology inventory.



The screenshot displays a grid of five photographs illustrating classroom technology use. Each photo is accompanied by a purple caption bar at the bottom. The photos show students and teachers interacting with laptops and tablets in various classroom settings.

- Beaver**: A classroom with students at desks, some using laptops.
- Weber**: A teacher and a student looking at a laptop screen.
- Alpine**: Two young boys looking at a computer monitor.
- Juab**: A classroom with students at desks, some using tablets.
- Final Installment**: A teacher and students in a classroom setting, with one student using a laptop.

**c. News and Notables on the Utah School Inventory  
October – December 2019**

Date	School District	Title	Publication or Organization	Link to Story
10/3/19	N/A	Utah Education Network Asks School Districts to Track Technology in Classrooms	Utah Education Network	<a href="https://connectednation.org/blog/2019/10/03/taking-inventory-utah-education-network-asks-school-districts-to-track-technology-in-classrooms/">https://connectednation.org/blog/2019/10/03/taking-inventory-utah-education-network-asks-school-districts-to-track-technology-in-classrooms/</a>
11/5/19	Beaver Co.	The Changing Classroom in Utah: Why Digital Teaching Matters	Utah Education Network	<a href="https://www.uen.org/news/article.php?id=934">https://www.uen.org/news/article.php?id=934</a>
11/5/19	Beaver Co.	Same	Connected Nation blog	<a href="https://connectednation.org/blog/2019/11/04/the-changing-classroom-in-utah-why-digital-teaching-matters/">https://connectednation.org/blog/2019/11/04/the-changing-classroom-in-utah-why-digital-teaching-matters/</a>
11/06/19	Beaver Co.	Same	Broadbandmatters.com	<a href="https://broadbandmatters.com/news/changing-classroom-utah-why-digital-teaching-matters">https://broadbandmatters.com/news/changing-classroom-utah-why-digital-teaching-matters</a>
11/06/19	Beaver Co.	Same	Beaver County Journal	The newspaper provided pdf's of the story – <a href="#">page 1</a> and <a href="#">page 2</a>
11/12/19	Beaver Co.	Same	San Juan Record	<a href="http://www.sjrnews.com/view/full_story/27679021/article-The-changing-classroom-in-Utah--Why-digital-teaching-matters-to-students">http://www.sjrnews.com/view/full_story/27679021/article-The-changing-classroom-in-Utah--Why-digital-teaching-matters-to-students</a>
11/12/19	Weber Co.	Technology in Weber School District – From Chalkboards to Chromebooks	Utah Education Network	<a href="https://www.uen.org/news/article.php?id=938">https://www.uen.org/news/article.php?id=938</a>
11/12/19	Weber Co.	Same	Connected Nation blog	<a href="https://connectednation.org/blog/2019/11/12/8709/">https://connectednation.org/blog/2019/11/12/8709/</a>
11/19/19	Alpine	The Changing Classroom in Utah: Technologies Role in Alpine School District	Utah Education Network	<a href="https://www.uen.org/news/article.php?id=939">https://www.uen.org/news/article.php?id=939</a>

Date	School District	Title	Publication or Organization	Link to Story
11/19/19	Alpine	Same	Connected Nation blog	<a href="https://connectednation.org/blog/2019/11/19/the-changing-classroom-in-utah-technologys-role-in-alpine-school-district/">https://connectednation.org/blog/2019/11/19/the-changing-classroom-in-utah-technologys-role-in-alpine-school-district/</a>
11/26/19	Juab	Innovating Technology in Juab School District	Utah Education Network	<a href="https://www.uen.org/news/article.php?id=942">https://www.uen.org/news/article.php?id=942</a>
11/26/19	Juab	Same	Connected Nation Blog	<a href="https://connectednation.org/blog/2019/11/26/the-changing-classroom-in-utah-innovating-technology-in-juab-school-district/">https://connectednation.org/blog/2019/11/26/the-changing-classroom-in-utah-innovating-technology-in-juab-school-district/</a>
12/03/19	Wrap Up of Series	Why Digital Teaching Matters	Utah Education Network	<a href="https://www.uen.org/news/article.php?id=934">https://www.uen.org/news/article.php?id=934</a>
12/03/19	Wrap Up of Series	The Importance of Tracking Technology in Our Schools	Connected Nation blog	<a href="https://connectednation.org/blog/2019/12/03/the-importance-of-tracking-technology-in-our-schools/">https://connectednation.org/blog/2019/12/03/the-importance-of-tracking-technology-in-our-schools/</a>
12/29/19	Paradigm High School	How a Utah School is Bridging the Digital Divide with New Technology for Students	Connected Nation blog	<a href="https://connectednation.org/blog/2019/12/30/how-a-utah-school-is-bridging-the-digital-divide-with-new-technology-for-students/">https://connectednation.org/blog/2019/12/30/how-a-utah-school-is-bridging-the-digital-divide-with-new-technology-for-students/</a>

To read the full stories from the series see Appendix G.



04

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# Conclusion



## IV. Conclusion

With this third iteration of the Utah School Technology Inventory now complete, state and local leaders once again have a clear and timely picture of the state of digital teaching and learning assets and needs — unlike any other state in the country. The investment in data collection and analyses has resulted in informed action being taken by the Utah legislature to improve resources available to schools and districts, which is allowing Utah to remain a leader in both connectivity and digital teaching and learning resources.

With 100% of public schools in Utah once again participating in the Inventory, Utah's leaders can ensure that all students have the opportunity for world-class learning opportunities enabled by technology and effective teaching practices. While this year's inventory indicates across-the-board improvements, it also highlights opportunities for targeted future investment where needs remain.

In 2017, 19% of Utah educational institutions had deployed 1:1 mobile device initiatives, but only 6% allowed students to take their mobile devices home outside of school hours. In 2019, the number of 1:1 deployments has jumped to 30%, yet still only 9% of schools allow devices to go home with students. The age of hardware in schools is also worth noting, with 20% of LEAs reporting that the average age of their wireless hardware is four years old or older, while 40% of LEAs say their wired hardware is the same age or older. Additionally, 13% of schools have not acquired *any* digital content licenses for textbooks or other online resources.

While these facts are not necessarily a cause for concern, Utah's leaders should be mindful of these statistics as they prioritize future investments. It is the goal of this report and its corresponding dataset to serve as a resource for informed action so that every student in every corner of the state has access to a world-class education — a goal that is only made possible through the prioritization of, and investment in, education technology and the ecosystem that supports its effective use.



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# Appendices



**Appendix A:**  
House Bill 277





1                   **PERSONALIZED LEARNING AND TEACHING AMENDMENTS**

2                                   2016 GENERAL SESSION

3                                   STATE OF UTAH

4                                   **Chief Sponsor: John Knotwell**

5                                   Senate Sponsor: J. Stuart Adams

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7                   **LONG TITLE**

8                   **General Description:**

9                   This bill creates the Digital Teaching and Learning Grant Program.

10                  **Highlighted Provisions:**

11                  This bill:

12                    ▶ enacts Title 53A, Chapter 1, Part 14, Digital Teaching and Learning Grant Program,  
13 including provisions related to the following:

- 14                    • definitions;
- 15                    • the digital teaching and learning master plan;
- 16                    • readiness assessments;
- 17                    • State Board of Education duties and LEA plan requirements;
- 18                    • implementation assessments and board interventions; and
- 19                    • procurement;
- 20                    ▶ sunsets the Smart School Technology Program;
- 21                    ▶ repeals language related to a whole-school one-to-one mobile device technology  
22 deployment plan; and
- 23                    ▶ makes technical and conforming corrections.

24                  **Money Appropriated in this Bill:**

25                  This bill appropriates:

- 26                    ▶ to the State Board of Education -- Minimum School Program -- Related to Basic  
27 School Program -- Digital Teaching and Learning Program, as a one-time  
28 appropriation:
  - 29                    • from the Education Fund, \$220,000;

30           ▶ to the State Board of Education -- Minimum School Program -- Related to Basic  
31 School Program -- Digital Teaching and Learning Program, as an ongoing  
32 appropriation:

33           • from the Education Fund, \$9,840,000;

34           ▶ to the State Board of Education -- Minimum School Program -- Related to Basic  
35 School Program -- Digital Teaching and Learning Program, as a one-time  
36 appropriation:

37           • from the Education Fund, \$3,780,000;

38           ▶ to the Utah Education and Telehealth Network -- Digital Teaching and Learning  
39 Program, as an ongoing appropriation:

40           • from the Education Fund, \$160,000; and

41           ▶ to the Utah Education and Telehealth Network -- Digital Teaching and Learning  
42 Program, as a one-time appropriation:

43           • from the Education Fund, \$1,000,000.

44 **Other Special Clauses:**

45           None

46 **Utah Code Sections Affected:**

47 AMENDS:

48           **63I-2-253**, as last amended by Laws of Utah 2015, Chapters 258, 418, and 456

49           **63I-2-263**, as last amended by Laws of Utah 2015, Chapters 182, 258, 283, 292, and  
50 297

51 ENACTS:

52           **53A-1-1401**, Utah Code Annotated 1953

53           **53A-1-1402**, Utah Code Annotated 1953

54           **53A-1-1404**, Utah Code Annotated 1953

55           **53A-1-1405**, Utah Code Annotated 1953

56           **53A-1-1406**, Utah Code Annotated 1953

57           **53A-1-1407**, Utah Code Annotated 1953

58 RENUMBERS AND AMENDS:

59 **53A-1-1403**, (Renumbered from 53A-1-710, as enacted by Laws of Utah 2015, Chapter  
60 446)

61 **Utah Code Sections Affected by Coordination Clause:**

62 **53A-1-1402**, Utah Code Annotated 1953

63 **53A-1-1403**, Utah Code Annotated 1953

64 **53A-1-1405**, Utah Code Annotated 1953



66 *Be it enacted by the Legislature of the state of Utah:*

67 Section 1. Section **53A-1-1401** is enacted to read:

68 **Part 14. Digital Teaching and Learning Grant Program**

69 **53A-1-1401. Title.**

70 This part is known as "Digital Teaching and Learning Grant Program."

71 Section 2. Section **53A-1-1402** is enacted to read:

72 **53A-1-1402. Definitions.**

73 As used in this part:

74 (1) "Advisory committee" means the committee established by the board under Section  
75 53A-1-1406.

76 (2) "Board" means the State Board of Education.

77 (3) "Digital readiness assessment" means an assessment provided by the board that:

78 (a) is completed by an LEA analyzing an LEA's readiness to incorporate

79 comprehensive digital teaching and learning; and

80 (b) informs the preparation of an LEA's plan for incorporating comprehensive digital  
81 teaching and learning.

82 (4) "High quality professional learning" means the professional learning standards  
83 described in Section 53A-3-701.

84 (5) "Implementation assessment" means an assessment that analyzes an LEA's  
85 implementation of an LEA plan, including identifying areas for improvement, obstacles to

86 implementation, progress toward the achievement of stated goals, and recommendations going  
 87 forward.

88 (6) "LEA plan" means an LEA's plan to implement a digital teaching and learning  
 89 program that meets the requirements of this section and requirements set forth by the board and  
 90 the advisory committee.

91 (7) "Local education agency" or "LEA" means:

92 (a) a school district;

93 (b) a charter school; or

94 (c) the Utah Schools for the Deaf and the Blind.

95 (8) "Program" means the Digital Teaching and Learning Grant Program established in  
 96 this part and as described in a proposal adopted by the digital teaching and learning task force  
 97 in accordance with Section [53A-1-1403](#).

98 (9) "Utah Education and Telehealth Network" or "UETN" means the Utah Education  
 99 and Telehealth Network created in Section [53B-17-105](#).

100 Section 3. Section **53A-1-1403**, which is renumbered from Section 53A-1-710 is  
 101 renumbered and amended to read:

102 **[53A-1-710].            53A-1-1403. Digital teaching and learning program task**  
 103 **force -- Funding proposal for a program -- Master plan -- Reporting requirements.**

104 ~~[(1) As used in this section:]~~

105 ~~[(a) "Board" means the State Board of Education.]~~

106 ~~[(b) "Core subject areas" means the following subject areas:]~~

107 ~~[(i) English language arts;]~~

108 ~~[(ii) mathematics;]~~

109 ~~[(iii) science; and]~~

110 ~~[(iv) social studies.]~~

111 ~~[(c) "High quality professional learning" means the professional learning standards~~  
 112 ~~described in Section [53A-3-701](#).]~~

113 ~~[(d) "LEA plan" means an LEA's plan to implement a digital teaching and learning~~

114 program that meets requirements set by the board.]

115 [~~(e)~~ "Local education agency" or "LEA" means:]

116 [~~(i)~~ a school district;]

117 [~~(ii)~~ a charter school; or]

118 [~~(iii)~~ the Utah Schools for the Deaf and the Blind.]

119 [~~(f)~~ "Statewide assessment" means a test of student achievement in English language  
120 arts, mathematics, or science, including a test administered in a computer adaptive format,  
121 which is administered statewide under Part 6, Achievement Tests.]

122 [~~(g)~~ "Utah Education and Telehealth Network" or "UETN" means the Utah Education  
123 and Telehealth Network created in Section ~~53B-17-105~~.]

124 [~~(2)~~] (1) (a) The board shall establish a digital teaching and learning task force to  
125 develop a funding proposal to present to the Legislature for digital teaching and learning in  
126 elementary and secondary schools.

127 (b) The digital teaching and learning task force shall include representatives of:

128 (i) the board;

129 (ii) UETN;

130 (iii) LEAs; and

131 (iv) the Governor's Education Excellence Commission.

132 [~~(3)~~] (2) (a) The board, in consultation with the digital teaching and learning task force  
133 created in Subsection [~~(2)~~] (1), shall create a funding proposal for a statewide digital teaching  
134 and learning program designed to:

135 (i) improve student outcomes through the use of digital teaching and learning  
136 technology; and

137 (ii) provide high quality professional learning for educators to improve student  
138 outcomes through the use of digital teaching and learning technology.

139 (b) The board shall:

140 (i) identify outcome based metrics to measure student achievement related to a digital  
141 teaching and learning program; and

142 (ii) develop minimum benchmark standards for student achievement and school level  
143 outcomes to measure successful implementation of a digital teaching and learning program.

144 [~~(4)~~] (3) As funding allows, the board shall develop a master plan for a statewide  
145 digital teaching and learning program, including the following:

146 (a) a statement of purpose that describes the objectives or goals the board will  
147 accomplish by implementing a digital teaching and learning program;

148 (b) a forecast for fundamental components needed to implement a digital teaching and  
149 learning program, including a forecast for:

150 (i) student and teacher devices;

151 (ii) Wi-Fi and wireless compatible technology;

152 (iii) curriculum software;

153 (iv) assessment solutions;

154 (v) technical support;

155 (vi) change management of LEAs;

156 (vii) high quality professional learning;

157 (viii) Internet delivery and capacity; and

158 (ix) security and privacy of users;

159 (c) a determination of the requirements for:

160 (i) statewide technology infrastructure; and

161 (ii) local LEA technology infrastructure;

162 (d) standards for high quality professional learning related to implementing and  
163 maintaining a digital teaching and learning program;

164 (e) a statewide technical support plan that will guide the implementation and  
165 maintenance of a digital teaching and learning program, including standards and competency  
166 requirements for technical support personnel;

167 (f) (i) a grant program for LEAs; or

168 (ii) a distribution formula to fund LEA digital teaching and learning programs;

169 (g) in consultation with UETN, an inventory of the state public education system's

170 current technology resources and other items and a plan to integrate those resources into a  
171 digital teaching and learning program;

172 (h) an ongoing evaluation process that is overseen by the board;

173 (i) proposed rules that incorporate the principles of the master plan into the state's  
174 public education system as a whole; and

175 (j) a plan to ensure long-term sustainability that:

176 (i) accounts for the financial impacts of a digital teaching and learning program; and

177 (ii) facilitates the redirection of LEA savings that arise from implementing a digital  
178 teaching and learning program.

179 ~~[(5)]~~ (4) UETN shall:

180 (a) in consultation with the board, conduct an inventory of the state public education  
181 system's current technology resources and other items as determined by UETN, including  
182 software;

183 (b) perform an engineering study to determine the technology infrastructure needs of  
184 the public education system to implement a digital teaching and learning program, including  
185 the infrastructure needed for the board, UETN, and LEAs; and

186 (c) as funding allows, provide infrastructure and technology support for school districts  
187 and charter schools.

188 ~~[(6)]~~ (5) On or before December 1, 2015, the board and UETN shall present the  
189 funding proposal for a statewide digital teaching and learning program described in Subsection  
190 ~~[(3)]~~ (2) to the Education Interim Committee and the Executive Appropriations Committee,  
191 including:

192 (a) the board's progress on the development of a master plan described in Subsection  
193 ~~[(4)]~~ (3); and

194 (b) the progress of UETN on the inventory and study described in Subsection ~~[(5)]~~ (4).

195 Section 4. Section **53A-1-1404** is enacted to read:

196 **53A-1-1404. Readiness assessments.**

197 Beginning July 1, 2016, and ending July 1, 2021, each LEA, including each school

198 within an LEA, shall annually complete a digital readiness assessment.

199 Section 5. Section **53A-1-1405** is enacted to read:

200 **53A-1-1405. Digital Teaching and Learning Grant Program -- Board duties --**  
201 **Advisory committee -- LEA plan requirements.**

202 (1) There is created the Digital Teaching and Learning Grant Program to improve  
203 educational outcomes in public schools by effectively incorporating comprehensive digital  
204 teaching and learning technology.

205 (2) The board shall:

206 (a) in accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act,  
207 adopt rules for the administration of the program, including rules requiring:

208 (i) an LEA plan to include measures to ensure that the LEA monitors and implements  
209 technology with best practices, including the recommended use for effectiveness;

210 (ii) an LEA plan to include robust goals for learning outcomes and appropriate  
211 measurements of goal achievement;

212 (iii) an LEA to demonstrate that the LEA plan can be fully funded by grant funds or a  
213 combination of grant and local funds; and

214 (iv) an LEA to report on funds from expenses previous to the implementation of the  
215 LEA plan that the LEA has redirected after implementation;

216 (b) establish an advisory committee to make recommendations on the program and  
217 LEA plan requirements and report to the board; and

218 (c) in accordance with this part, approve LEA plans and award grants.

219 (3) (a) The board shall, subject to legislative appropriations, award a grant to an LEA:

220 (i) that submits an LEA plan that meets the requirements described in Subsection (4);

221 and

222 (ii) for which the LEA's leadership and management members have completed a digital  
223 teaching and learning leadership and implementation training as provided in Subsection (3)(b).

224 (b) The board or its designee shall provide the training described in Subsection

225 (3)(a)(ii).



- 226           (4) The board shall establish requirements of an LEA plan that shall include:  
227           (a) the results of the LEA's digital readiness assessment and a proposal to remedy an  
228 obstacle to implementation or other issues identified in the assessment;  
229           (b) a proposal to provide high quality professional learning for educators in the use of  
230 digital teaching and learning technology;  
231           (c) a proposal for leadership training and management restructuring, if necessary, for  
232 successful implementation;  
233           (d) clearly identified targets for improved student achievement, student learning, and  
234 college readiness through digital teaching and learning; and  
235           (e) any other requirement established by the board in rule in accordance with Title  
236 63G, Chapter 3, Utah Administrative Rulemaking Act, including an application process and  
237 metrics to analyze the quality of a proposed LEA plan.  
238           (5) The board or the board's designee shall establish an interactive dashboard available  
239 to each LEA that is awarded a grant for the LEA to track and report the LEA's long-term,  
240 intermediate, and direct outcomes in realtime and for the LEA to use to create customized  
241 reports.  
242           (6) (a) There is no federal funding, federal requirement, federal education agreement,  
243 or national program included or related to this state adopted program.  
244           (b) Any inclusion of federal funding, federal requirement, federal education agreement,  
245 or national program shall require separate express approval as provided in Title 53A, Chapter  
246 1, Part 9, Implementing Federal or National Education Program Act.  
247           Section 6. Section **53A-1-1406** is enacted to read:  
248           **53A-1-1406. Implementation assessment -- Board intervention.**  
249           (1) (a) An LEA that receives a grant as provided in Section [53A-1-1405](#) shall:  
250           (i) subject to Subsection (1)(b), complete an implementation assessment for each year  
251 that the LEA is expending grant money; and  
252           (ii) (A) report the findings of the implementation assessment to the board; and  
253           (B) submit to the board a plan to resolve issues raised in the implementation

254 assessment.

255 (b) Each school within the LEA shall:

256 (i) complete an implementation assessment; and

257 (ii) submit a compilation report that meets the requirements described in Subsections

258 (1)(a)(ii)(A) and (B).

259 (2) The board or the board's designee shall review an implementation assessment and

260 review each participating LEA's progress from the previous year, as applicable.

261 (3) The board shall establish interventions for an LEA that does not make progress on

262 implementation of the LEA's implementation plan, including:

263 (a) nonrenewal of, or time period extensions for, the LEA's grant;

264 (b) reduction of funds; or

265 (c) other interventions to assist the LEA.

266 Section 7. Section **53A-1-1407** is enacted to read:

267 **53A-1-1407. Procurement -- Independent evaluator.**

268 (1) In accordance with Title 63G, Chapter 6a, Utah Procurement Code, the board shall

269 contract with an independent evaluator to:

270 (a) annually evaluate statewide direct and intermediate outcomes beginning the first

271 year that grants are awarded, including baseline data collection for long-term outcomes;

272 (b) in the fourth year after a grant is awarded, and each year thereafter, evaluate

273 statewide long-term outcomes; and

274 (c) report on the information described in Subsections (1)(a) and (b) to the board.

275 (2) (a) To implement an LEA plan, a contract, in accordance with Title 63G, Chapter

276 6a, Utah Procurement Code, or other agreement with one or more providers of technology

277 powered learning solutions and one or more providers of wireless networking solutions may be

278 entered into by:

279 (i) UETN, in cooperation with or on behalf of, as applicable, the board, the board's

280 designee, or an LEA; or

281 (ii) an LEA.

282 (b) A contract or agreement entered into under Subsection (2)(a) may be a contract or  
283 agreement which:

284 (i) UETN enters into with a provider and payment for services is directly appropriated  
285 by the Legislature, as funds are available, to UETN;

286 (ii) UETN enters into with a provider and pays for the provider's services and is  
287 reimbursed for payments by an LEA that benefits from the services;

288 (iii) UETN negotiates the terms of on behalf of an LEA that enters into the contract or  
289 agreement directly with the provider and the LEA pays directly for the provider's services; or

290 (iv) an LEA enters into directly, pays a provider, and receives preapproved  
291 reimbursement from a UETN fund established for this purpose.

292 (c) If an LEA does not reimburse UETN in a reasonable time for services received  
293 under a contract or agreement described in Subsection (2)(b), the board shall pay the balance  
294 due to UETN from the LEA's funds received under Chapter 17a, Part 1, Minimum School  
295 Program.

296 (d) If UETN negotiates or enters into an agreement as described in Subsection (2)(b)(ii)  
297 or (2)(b)(iii), and UETN enters into an additional agreement with an LEA that is associated  
298 with the agreement described in Subsection (2)(b)(ii) or (2)(b)(iii), the associated agreement  
299 may be treated by UETN and the LEA as a cooperative procurement, as that term is defined in  
300 Section 63G-6a-103, regardless of whether the associated agreement satisfies the requirements  
301 of Section 63G-6a-2105.

302 Section 8. Section **63I-2-253** is amended to read:

303 **63I-2-253. Repeal dates -- Titles 53, 53A, and 53B.**

304 (1) Section [53A-1-403.5](#) is repealed July 1, 2017.

305 (2) Subsection [53A-1-410\(5\)](#) is repealed July 1, 2015.

306 (3) Section [53A-1-411](#) is repealed July 1, 2017.

307 (4) Section [53A-1a-513.5](#) is repealed July 1, 2017.

308 (5) Section [53A-1-709](#) is repealed July 1, 2020.

309 [~~5~~] (6) Title 53A, Chapter 1a, Part 10, UPSTART, is repealed July 1, 2019.



338 Program; and  
339 (2) under Section 63J-1-603, the appropriations described in this section not lapse at  
340 the close of fiscal year 2016.

341 Section 11. **Appropriation.**

342 Under the terms and conditions of Title 63J, Chapter 1, Budgetary Procedures Act, for  
343 the fiscal year beginning July 1, 2016, and ending June 30, 2017, the following sums of money  
344 are appropriated from resources not otherwise appropriated, or reduced from amounts  
345 previously appropriated, out of the funds or amounts indicated. These sums of money are in  
346 addition to amounts previously appropriated for fiscal year 2017.

347 Item 1 To State Board of Education -- Minimum School Program -- Related to Basic  
348 School Program -- Digital Teaching and Learning Program

349 From Education Fund \$9,840,000  
350 From Education Fund, One-time \$3,780,000

351 Schedule of Programs:

352 Digital Teaching and Learning Program \$13,620,000

353 Item 2 To Utah Education and Telehealth Network -- Digital Teaching and Learning  
354 Program

355 From Education Fund \$160,000  
356 From Education Fund, One-time \$1,000,000

357 Schedule of Programs:

358 Digital Teaching and Learning Program \$1,160,000

359 The Legislature intends that:

360 (1) except as provided in Subsection (2) or (3), the State Board of Education use the  
361 appropriation to the State Board of Education under this section to distribute money to LEAs as  
362 part of the grant program described in Title 53A, Chapter 1, Part 14, Digital Teaching and  
363 Learning Grant Program;

364 (2) the State Board of Education may use up to \$187,600 of the ongoing appropriation  
365 to the State Board of Education to administer and evaluate the program, and provide other

366 assistance to LEAs;

367 (3) the State Board of Education may use up to \$780,000 of the one-time appropriation  
368 to the State Board of Education to administer and evaluate the program, provide professional  
369 development, and contract with third party providers to assist with the administration of the  
370 program as described in Title 53A, Chapter 1, Part 14, Digital Teaching and Learning Grant  
371 Program;

372 (4) the Utah Education and Telehealth Network may use up to \$160,000 of the ongoing  
373 appropriation to the Utah Education and Telehealth Network to administer the program;

374 (5) the Utah Education and Telehealth Network use the \$1,000,000 one-time  
375 appropriation to the Utah Education and Telehealth Network for infrastructure and other  
376 technology for LEAs; and

377 (6) under Section [63J-1-603](#), the appropriations described in this section:

378 (a) not lapse at the close of fiscal year 2017; and

379 (b) may be used in fiscal year 2018, 2019, or 2020.

**Appendix B:**

# Inventory Questions



## 2019 Utah School Tech Inventory Questions

### SCHOOL DISTRICT INFORMATION

- Local Education Agency Type
  - Charter
  - District
- School District of Local Education Agency (LEA) Name:
  
- NCES District ID Number:
  
- Street Address
  - Street Address
  - Suite/Office Number
  - City
  - State
  - ZIP Code
  - Phone Number

### DISTRICT QUESTIONS

1. How many total hours are dedicated to providing technical support per week?

This question is to assess paid-for technical support services. Please include all paid hours (salary, hourly, stipend, prep time, interns, etc.) for those providing this support service for schools and/or the district office.

LEA Employees - number of hours per week on average: \_\_\_\_\_

Non-LEA Contracted Workers - hours per week on average: \_\_\_\_\_

(For example - you have three full time 40 hours a week and one part time 20 hours a week technical professional employed by the LEA, your total hours to report would be 140 hours per week for the LEA Employees. You also have a contract with a local vendor for an additional 10 hours a week for network support, your total hours to report would be 10 hours per week for Non-LEA contracted work.)

2. How many total hours are dedicated to providing **instructional technology support (professional development, coaching/mentoring for teachers, etc.) per week?**

This question is to assess the amount of paid time spent on instructional technology support services. Please include all paid hours (salary, hourly, stipend, prep time, interns, etc.) for those providing this support service for schools and or the district office. This does not include unpaid volunteer or internship hours.

LEA Employees - number of hours per week on average: \_\_\_\_\_



Non-LEA Contracted Work - hours per week on average: \_\_\_\_\_

(For example: An LEA with three full-time employees (each working 40 hours a week) and one part-time technical professional employed by the LEA (working 20 hours a week on average) would report 140 hours per week for the LEA Employees. An LEA that contracts with a local vendor for an additional 10 hours a week for network support would report 10 hours per week for Non-LEA contracted work.)

3. What are the top software applications that are being used to support teaching and learning in your district?

- Adobe Creative Suite
- ALEKS-Math
- Canvas (LMS)
- eMedia
- Google Apps for Education
- Microsoft Office
- UEN Open Educational Resources
- Utah's Online Library
- YouTube
- (Other) Literacy Software
- (Other) LMS
- (Other) Math Software
- Other (Please specify): \_\_\_\_\_

4. What are the top assessment solutions that are currently in use in your district?

- AAPPL
- ACT
- ACT Aspire
- Canvas
- Dibels
- iReady
- KITE
- Mastery Connect
- NWEA
- RISE
- Sage
- SAT
- UTIPS
- Utah Aspire Plus
- Utah Compose
- WIDA
- Other (Please specify): \_\_\_\_\_

5. Does the school have a student information system (SIS) in place? If yes, what platform?
  - No
  - Yes - Aspire
  - Yes - Other \_\_\_\_\_
  
6. Does your district utilize Microsoft Active Directory (AD) for student and teacher accounts?
  - Yes
  - No
  
7. Does your district or charter school have individual e-mail accounts set up for students? If so, please select the grade level(s) for which accounts have been set up.
  - N/A. We do not have accounts set up for student use.
  - Pre-K
  - Kindergarten
  - 1st
  - 2nd
  - 3rd
  - 4th
  - 5th
  - 6th
  - 7th
  - 8th
  - 9th
  - 10th
  - 11th
  - 12th
  
8. What platform is used for student e-mail accounts?
  - Local or Hosted Microsoft Exchange Server
  - Outlook.com
  - Google Gmail
  - Yahoo! Mail
  - Apple iCloud Mail
  - Other (Please specify): \_\_\_\_\_
  
9. What type of firewall is employed at this district/school?
  
10. What type of content filter is in place at this district/school?
  
11. Is off-campus connectivity important for your students? How do you anticipate that teaching & learning in your school could benefit from 24/7 access for every student?

## **SCHOOL INFORMATION**

- School Name
- NCES School ID Number
- Street Address
  - Street Address
  - Suite/Office Number
  - City
  - State
  - ZIP Code
  - Phone Number

## **SCHOOL PROFILE QUESTIONS**

1. School Category
  - Elementary School
  - Middle School
  - High School
  - Combined School (e.g., K-12 or 7-12)
2. Grades Served By This School Please check all that apply
  - Pre-K
  - Kindergarten
  - 1st
  - 2nd
  - 3rd
  - 4th
  - 5th
  - 6th
  - 7th
  - 8th
  - 9th
  - 10th
  - 11th
  - 12th
  - 12+ (Programs beyond grade 12)
3. Number of Students Enrolled (as of October 1)
4. Number of Classroom Teachers, including full-time, part-time, and contractors (as of November 1)

5. How many active instructional spaces (e.g., classrooms, libraries, gymnasiums, cafeterias, labs, and other separate spaces used for instruction) does the school contain in total? (Do NOT count offices, closets, and storage areas)

### **NETWORK QUESTIONS**

1. Does this school currently have a Wi-Fi network in place?
  - Yes
  - No
  
2. How many wireless access points (APs) are currently deployed school-wide (including outdoor units)?
  
3. Has the school's Wi-Fi network been professionally designed and the correct AP placement and configuration completed according to that design?
  - Yes, we used a contractor to conduct a professional Wi-Fi design
  - Yes, we performed an in-house professional Wi-Fi design and AP configuration using software (example: AirMagnet, Ekahau, etc.)
  - No, we have not had our Wi-Fi network professionally designed
  - Not applicable, we do not have Wi-Fi
  - Other (Please specify): \_\_\_\_\_
  
4. Has there been a professional post-installation validation survey of the school's Wi-Fi network?
  - Yes, it was done within the last year
  - Yes, it was done within the last 2 to 5 years
  - Yes, it was done over 5 years ago
  - No, we have never had a post-installation validation survey of the school's Wi-Fi network
  - Not applicable, we do not have Wi-Fi
  
5. Which statement best describes the Wi-Fi user experience in your school in terms of noticeable Wi-Fi outages ("noticeable" means outages lasting more than a few minutes)?
  - The school does not have noticeable Wi-Fi outages during the school year
  - The school has 1 to 4 noticeable Wi-Fi outages during the school year
  - The school has 5 to 10 noticeable Wi-Fi outages during the school year
  - The school has more than 10 noticeable Wi-Fi outages during the school year
  - Not applicable, we do not have Wi-Fi or this is a new school
  
6. Which statement best describes the Wi-Fi user experience in your school in terms of noticeable Wi-Fi slowdowns ("noticeable" means those lasting more than a few minutes)?
  - Students and teachers do not experience noticeable Wi-Fi slowdowns during school time

- Students and teachers experience noticeable Wi-Fi slowdowns less than 10% of the time during school
- Students and teachers experience noticeable Wi-Fi slowdowns between 10% and 20% of the time during school
- Students and teachers experience noticeable Wi-Fi slowdowns more than 20% of the time during school
- Not applicable, we do not have Wi-Fi or this is a new school

7. Which statement best describes the Wi-Fi coverage in your school?

- 100% of the school building has adequate Wi-Fi coverage (all rooms are covered)
- 80%-99% of the school building has adequate Wi-Fi coverage
- 60%-79% of the school building has adequate Wi-Fi coverage
- Less than 60% of the school building has adequate Wi-Fi coverage
- Not applicable, we do not have Wi-Fi

8. What wireless standard(s) is/are employed by the wireless APs currently serving the school?

- 802.11a
- 802.11b
- 802.11g
- 802.11n
- 802.11ac
- Not applicable, we do not have Wi-Fi

9. What is the dominant vendor of your **wireless** networking gear?

- Aerohive
- Aruba
- Cisco
- HP
- Meraki
- Ruckus
- Xirrus
- Fortinet
- Ubiquiti
- Not applicable, we do not have Wi-Fi
- Other (Please specify): \_\_\_\_\_

10. In your school, what is the controller environment for your wireless network?

- Cloud-Based Controller (Aerohive, Meraki, etc)
- Wireless Controller Located On-Site at the school
- Wireless Controller Shared w/ Other Schools
- Controllerless wireless environment
- Not applicable, we do not have Wi-Fi

11. What is the average age of the wireless gear installed in this school?

- Less than 1 year old
- 1 year old
- 2 years old
- 3 years old
- 4 years or older
- Not applicable

12. Are teachers, staff and administrators connected to a separate network (VLAN, etc.) than the one that students use?

- Yes
- No

13. What is the dominant vendor of your **wired** networking gear?

- Brocade/Ruckus
- Cisco
- Extreme
- HP
- Juniper
- Meraki
- Fortinet
- Dell
- Ubiquiti
- Other (Please specify): \_\_\_\_\_

14. What is the current standard switch vendor for the equipment installed in this school?

15. Indicate the total number of switch ports installed in the school for the following:

- 100Mbps: \_\_\_\_\_
- 1 Gbs: \_\_\_\_\_
- 10 Gbs: \_\_\_\_\_
- Other (over 10 Gbs): \_\_\_\_\_

16. What is the average age of the wired gear installed in this school?

- Less than 1 year old
- 1 year old
- 2 years old
- 3 years old
- 4 years or older
- Not applicable

17. What is the predominant wiring technology in this school?

- Cat 4
- Cat 5
- Cat 5e
- Cat 6
- Cat6a

18. Is the filtering solution hardware-based (i.e., in the network) or software-based (i.e., installed on the device)?

- Hardware-Based
- Software-Based

### HARDWARE QUESTIONS

1. To what extent have mobile computing devices already been deployed in the school?

- On a 1:1 basis (students can take the devices home at night)
- On a 1:1 basis (devices cannot be removed from school)
- On a cart for in-classroom use only
- Only available for check-out from the school library, media center, or computer lab
- No school-owned mobile computing devices, but students are allowed to use their own personal mobile devices in school under BYOD (“Bring Your Own Device”) policy
- None

2. How many devices are currently **deployed** and **in active use** in the school? For student use:

Device Type	Number of Devices
Windows Desktop	
Windows Laptop	
Mac Desktop	
Mac Laptop	
Google Chromebook	
Windows Tablet	
Android Tablet	
Apple iOS Tablet (iPad Pro, iPad, or iPad Mini)	

Other	
-------	--

3. How many devices are currently **deployed** and **in active use** in the school? Used by Teachers/Administrators

Device Type	Number of Devices
Windows Desktop	
Windows Laptop	
Mac Desktop	
Mac Laptop	
Google Chromebook	
Windows Tablet	
Android Tablet	
Apple iOS Tablet (iPad Pro, iPad, or iPad Mini)	
Other	

4. Does the school have a Mobile Device Management (MDM) solution in place to manage school-owned devices? If yes, please name the solution(s).

- Yes, a single solution (Please specify): \_\_\_\_\_
- Yes, multiple solutions (Please specify and use commas to separate entries):  
\_\_\_\_\_
- No or not applicable

### **SOFTWARE QUESTIONS**

1. Does the school already own digital content licenses for its textbooks

- Yes, all textbooks
- Yes, some textbooks (but not all)
- None
- Other (Please Explain) \_\_\_\_\_

2. If your school owns digital content licenses for some textbooks, but not all, in which subject areas does the school already own digital content licenses?

- Language Arts
- Math
- Science



- Social Studies
- CTE
- N/A – not applicable
- Other (Please specify): \_\_\_\_\_

3. What are your needs for instructional software and tools? (check all that apply)

- No changes. We have what we need.
- Math
- Language Arts
- Videos/Games/Apps
- Science
- Social Studies/World Languages
- Test Prep
- Teacher Professional Development Software
- Open Educational Resources
- Counseling/Comprehensive Guidance
- Learning Management System (Canvas or other)
- Tools for Student Products (coding, video editing, etc.)
- Software for Students with Special Needs
- Research Database (like Utah Online/Pioneer Library)
- Tools to Track Student Use
- Books, Online Books
- Other (Please specify): \_\_\_\_\_

### **OTHER QUESTIONS**

1. In your judgment, are adequate professional development and training resources available in your school district's budget to help teachers effectively integrate mobile devices into their teaching practice? If no, how could they be improved?

- Yes
- No (Please Explain) \_\_\_\_\_

2. Please select the statement that best describes your utilization of volunteers for technology support for the school. This should include non-paid technical support that is provided by students, interns, teachers, vendors, community members, and/or parents.

- The school does not rely on volunteers for technology support services
- The school uses volunteers for less than 10% of total technology support services
- The school uses volunteers for 10% - 20% of total technology support services
- The school uses volunteers for over 20% of total technology support services

3. Please select the statement that best describes your utilization of volunteers for technology professional development (professional development, coaching/mentoring for teachers or administrators etc.) for the school. This should include non-paid instructional technology

training that is provided by students, interns, teachers, vendors, community members, and/or parents.

- The school does not rely on volunteers for professional development services
- The school uses volunteers for less than 10% of the total technology professional development services
- The school uses volunteers for 10% - 20% of total technology professional development services
- The school uses volunteers for over 20% of total technology professional development services

**Appendix C:**

# About Connected Nation





## About Connected Nation

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Connected Nation is a leading technology organization committed to bringing affordable high-speed internet and broadband-enabled resources to all Americans. Headquartered in Bowling Green, Kentucky, Connected Nation has operated programs in more than 30 states in collaboration with public and private partners and was the largest single grantee under the United States Department of Commerce’s State Broadband Initiative (SBI) grant program—managing more than \$50 million in grant-funded broadband mapping and planning projects in 2009-2015.

Connected Nation’s mission is to improve lives by providing innovative solutions that expand the access, adoption, and use of high-speed internet to all people. Through its projects, Connected Nation effectively raises the awareness of the value of broadband-related technologies by developing coalitions of influencers and enablers for improving technology access, adoption, and use. Connected Nation works with consumers, community leaders, states, technology providers, and foundations to develop and implement technology expansion programs with core competencies centered on a mission to improve digital inclusion for people and places previously underserved and overlooked.

Connected Nation previously served as AT&T’s school site selection and implementation partner for the company’s “ConnectED” commitment—a commitment to the White House by AT&T of \$100 million in free, off-campus 4G LTE connectivity for students and teachers for three years.

In addition to helping UETN with statewide school technology inventories since 2015 with 100% participation, Connected Nation’s Connect Alaska program also undertook the Alaska School Broadband Audit. This comprehensive program involved Connected Nation’s thorough examination of school connectivity across all 53 of Alaska’s public school districts.

Recently, Connected Nation was selected by EducationSuperHighway to carry forward its mission of ensuring state and school district leaders have the information they need to improve school broadband connectivity. EducationSuperHighway was founded in 2012 with the mission of upgrading the internet access in every public school classroom in America. Having accomplished its mission of connecting 99 percent of schools to internet connections that provide at least 100 Kbps of bandwidth for every student, EducationSuperHighway will sunset in August 2020 and Connected Nation will take over to help launch a new tool for K12 schools named Connect K12. This tool will enable Connected Nation to provide key data and insights that will help state and local leaders take informed action to improve school connectivity in districts across the country.

Everyone belongs in a Connected Nation. For more information on Connected Nation, please visit [www.connectednation.org](http://www.connectednation.org).

**Appendix D:**  
Statewide Summary



## Utah District and Charter Schools

### STATE FACTS

State Population	3,205,958
Enrollment	667,871
Number of Schools	1,008
Median Household Income	\$68,374
Poverty Rate	9.0%

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



- 100% (All Rooms Covered)
- 80% - 99% Covered
- 60% - 79% Covered
- Less than 60% covered (or no Wi-Fi)

#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



- No noticeable slowdowns
- Slowdowns occur less than 10% of the time
- Slowdowns occur 10% - 20% of the time
- Slowdowns occur more than 20% of the time
- Other, or no Wi-Fi

#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



- Outside contractor conducted a professional Wi-Fi design
- In-house expert conducted a professional Wi-Fi design
- Wi-Fi network was not professionally designed
- Other network design choice, or no Wi-Fi

### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



- Less Than 1 Yr.Old
- 1 Year Old
- 2 Years Old
- 3 Years Old
- 4+ Years Old
- Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	79,995	29,181	-21,796	-17%
Laptops   Windows OS	72,958	13,019	30,817	56%
Desktops   Mac	18,199	3,629	-2,445	-10%
Laptops   Mac	25,831	15,658	4,816	13%
Chromebooks   Google	421,238	4,981	157,504	59%
Tablets   Windows	15,447	1,858	8,017	86%
Tablets   Android	1,840	282	208	11%
Tablets   IOS	103,272	20,899	19,731	19%

### MOBILE DEPLOYMENT

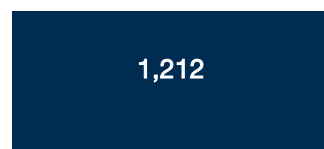
#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



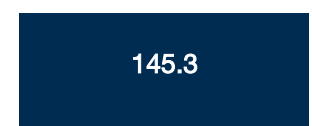
- 1:1 basis (students can take the devices home)
- 1:1 basis (devices cannot be removed from school)
- Devices on a cart; only available for in-classroom use
- Devices only available for check-out (e.g. from the school library)
- No school-owned mobile devices; students can use personal devices
- No mobile device usage

### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS

Computing Devices Per FTE Technical Support Staff

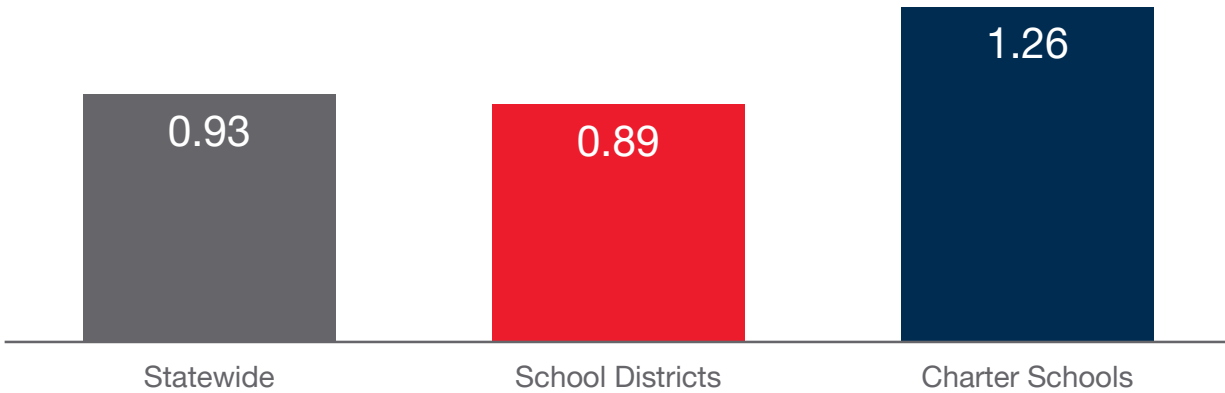


Teachers Per FTE Instructional Tech Support Staff



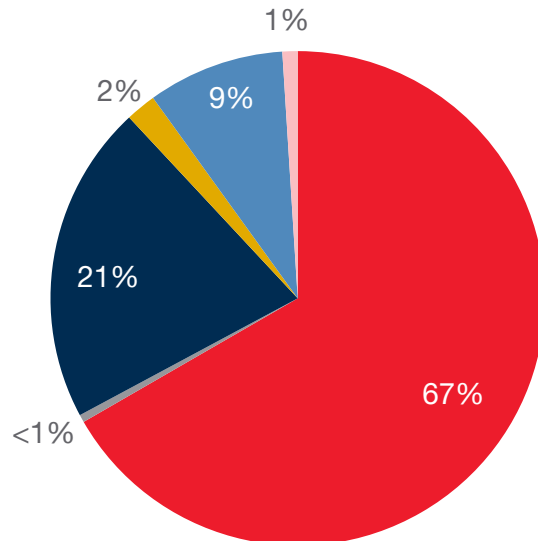


**TECHNICAL SUPPORT FTE PER 1,000 STUDENT DEVICES**

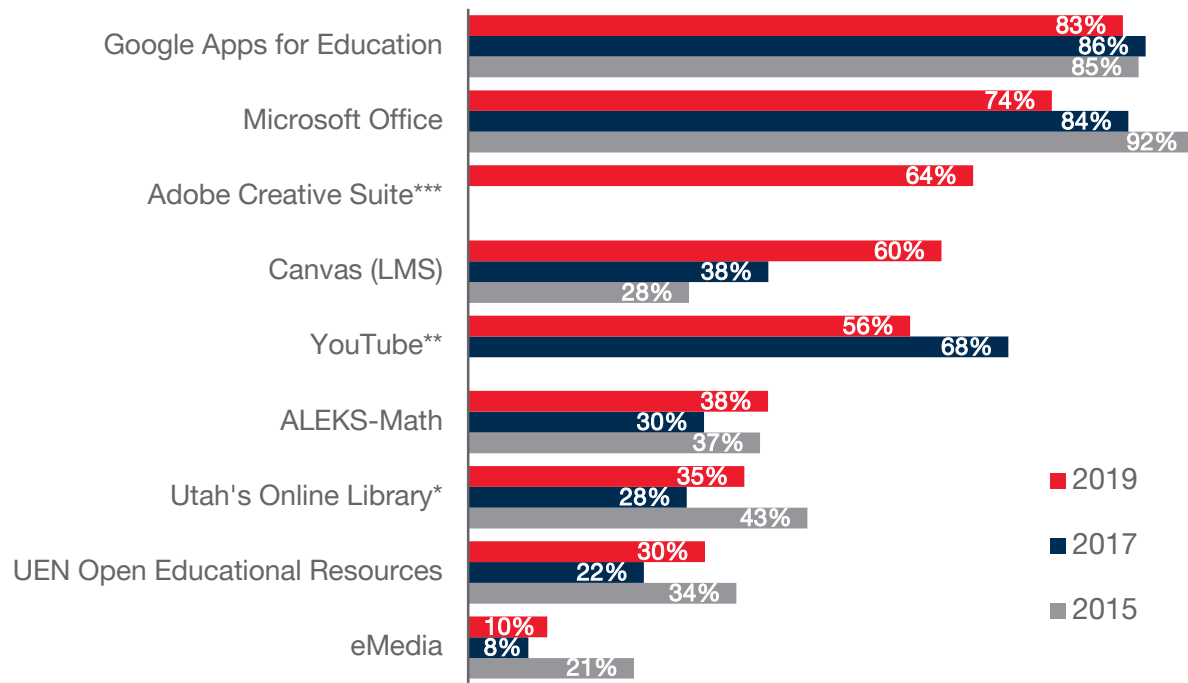


**MOBILE DEVICE DEPLOYMENT POLICIES IN UTAH SCHOOLS**

- On a cart for in-classroom use only
- No school-owned mobile computing devices, but students are allowed to use their own personal mobile devices under a BYOD (“Bring Your Own Device”) policy
- On a 1:1 basis (devices cannot be removed from school)
- Available for check-out from library, media center, or computer lab
- On a 1:1 basis (students can take the devices home at night)
- No mobile devices in school use

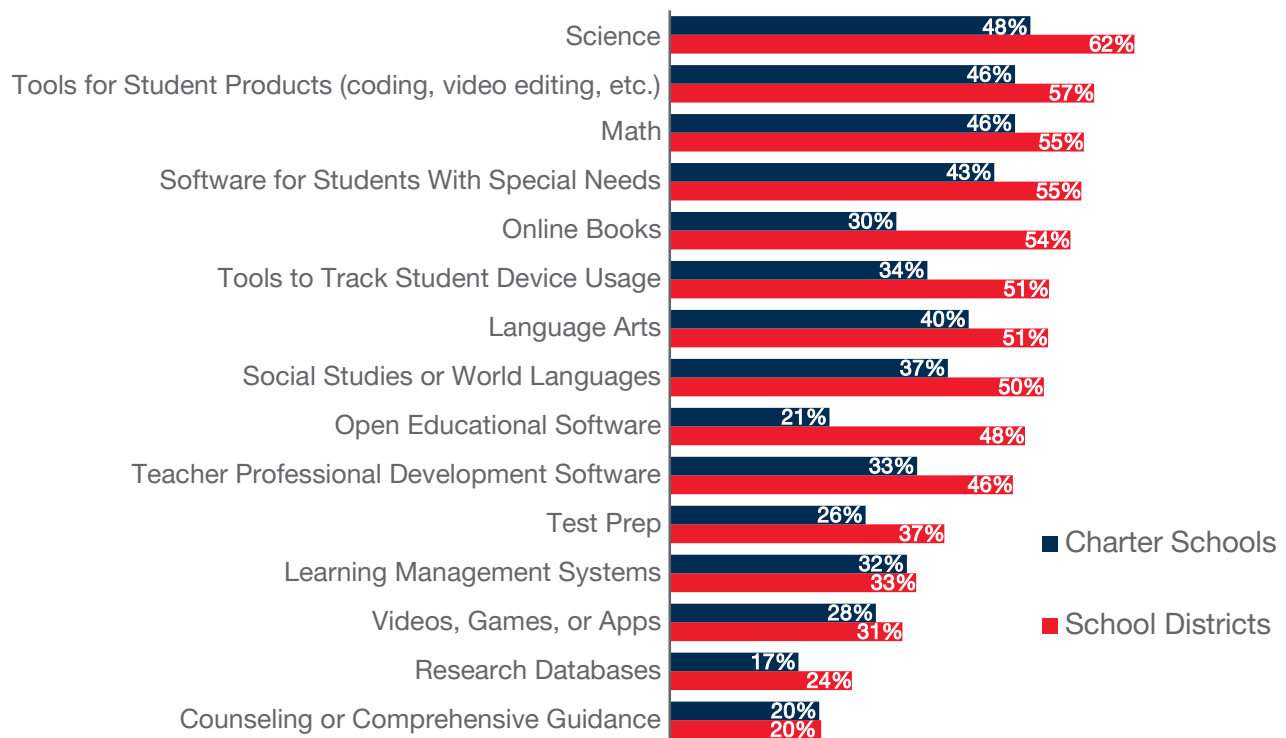


## TOP EDUCATIONAL SOFTWARE TOOLS IN UTAH



\*Previously "Pioneer Online Library"  
 \*\*Option not offered in 2015  
 \*\*\*Option not offered in 2015-2017

## TOOLS AND SOFTWARE NEEDED BY SCHOOL DISTRICTS AND CHARTER SCHOOLS





**Appendix E:**

# School District Summary Pages



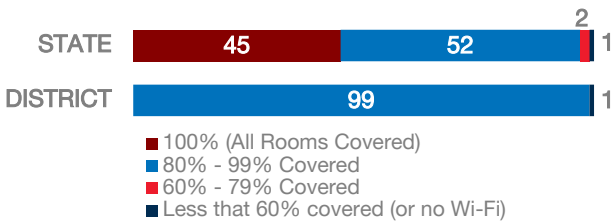
## Alpine School District

### DISTRICT FACTS

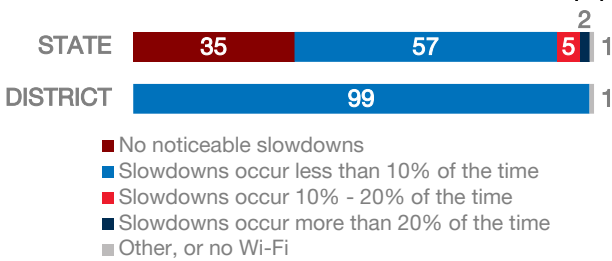
Area Population	341,089
Enrollment	80,757
Number of Schools	89
Urban or Rural	Urban
Median Household Income	\$78,459
Poverty Rate	8.3%

### WI-FI NETWORKS

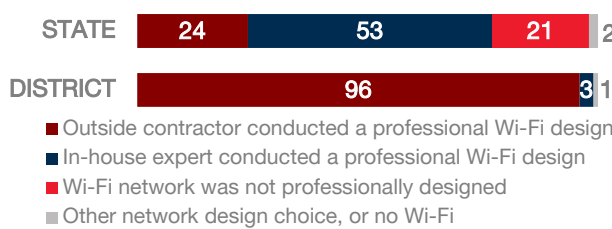
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

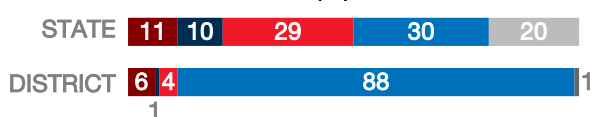


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

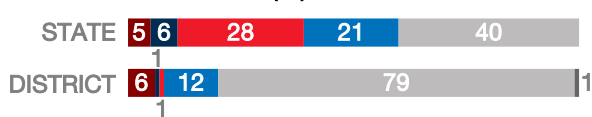


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

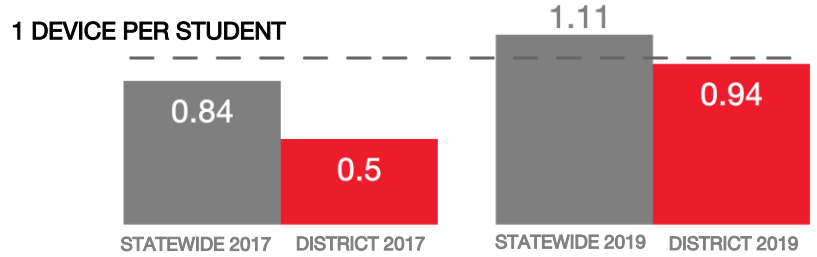


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr.Old    ■ 1 Year Old    ■ 2 Years Old  
■ 3 Years Old    ■ 4+ Years Old    ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

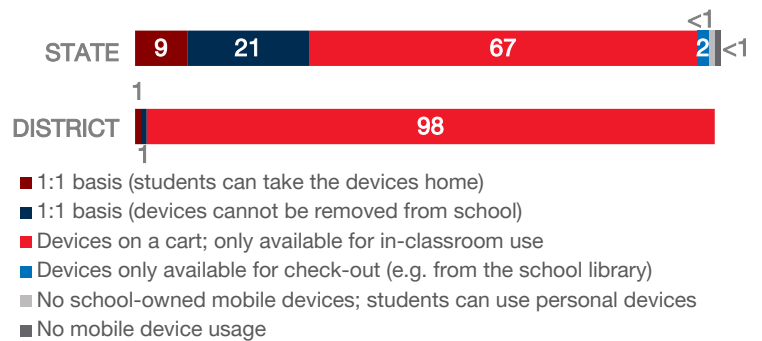


### COMPUTING DEVICES USED IN SCHOOLS

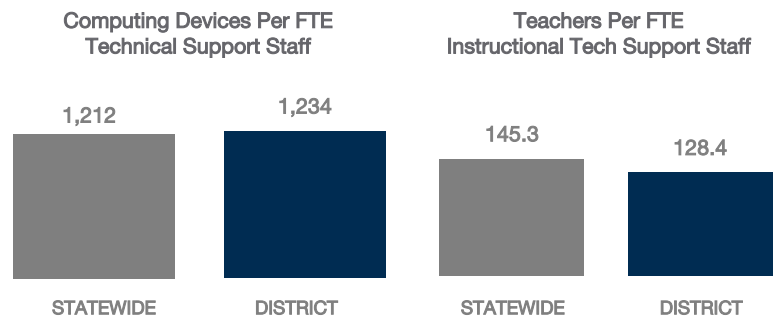
	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	5,038	971	4	0%
Laptops   Windows OS	2,370	1,309	856	30%
Desktops   Mac	5,150	692	357	7%
Laptops   Mac	1,191	4,440	1,039	23%
Chromebooks   Google	50,093	207	31,509	168%
Tablets   Windows	43	29	41	132%
Tablets   Android	49	7	0	0%
Tablets   IOS	12,070	2,679	4,212	40%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



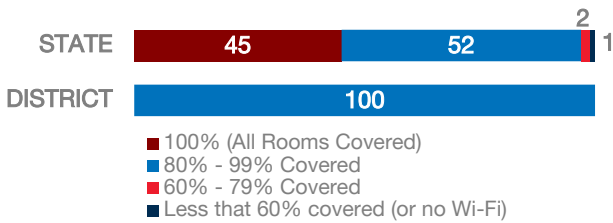
## Beaver County School District

### DISTRICT FACTS

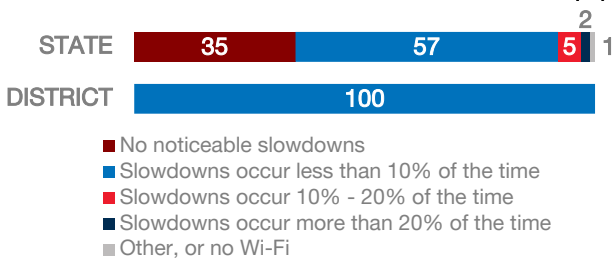
Area Population	6,443
Enrollment	1,519
Number of Schools	5
Urban or Rural	Rural
Median Household Income	\$54,212
Poverty Rate	8.2%

### WI-FI NETWORKS

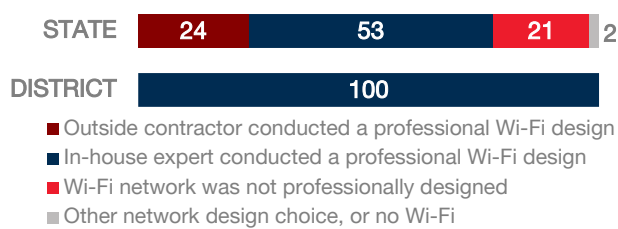
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

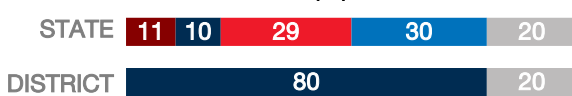


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

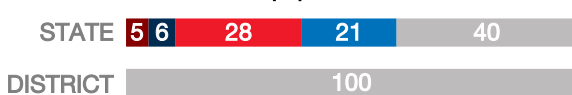


### NETWORK GEAR IN SCHOOLS

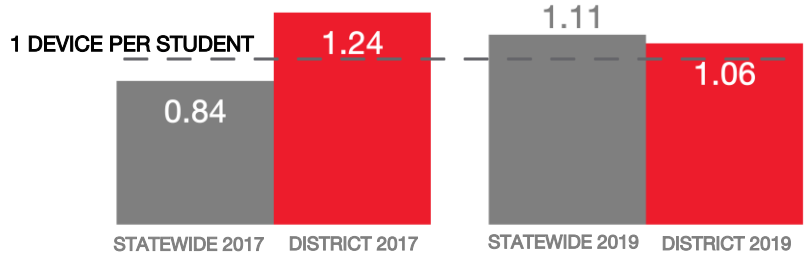
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

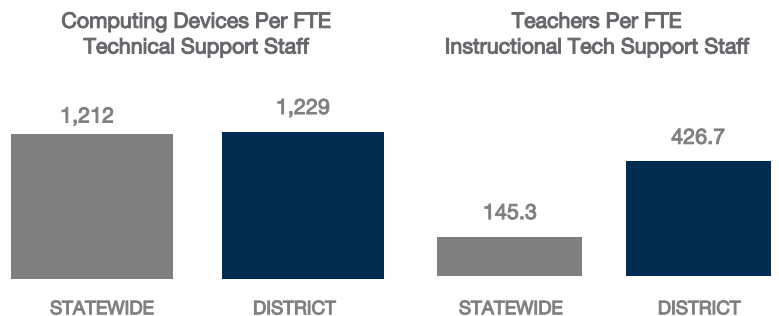
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	99	112	-7	-3%
Laptops   Windows OS	0	14	2	17%
Desktops   Mac	36	2	0	0%
Laptops   Mac	0	3	0	0%
Chromebooks   Google	1,341	103	-123	-8%
Tablets   Windows	0	0	0	N/A
Tablets   Android	115	16	-145	-53%
Tablets   IOS	25	101	25	25%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



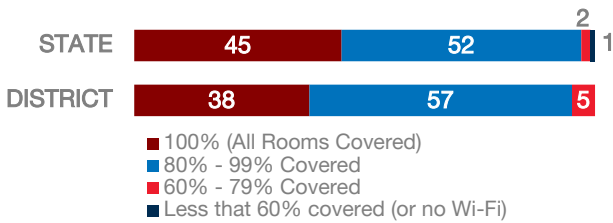
## Box Elder School District

### DISTRICT FACTS

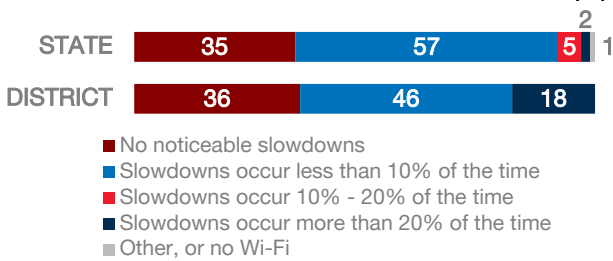
Area Population	53,001
Enrollment	11,861
Number of Schools	21
Urban or Rural	Urban
Median Household Income	\$59,937
Poverty Rate	9.3%

### WI-FI NETWORKS

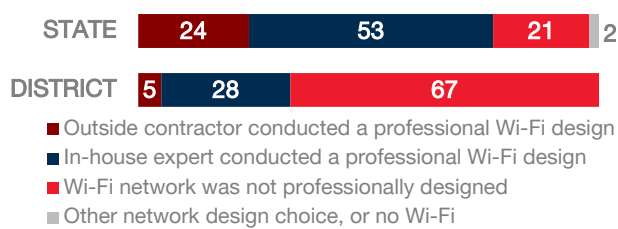
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

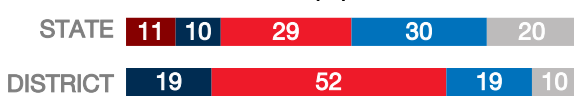


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

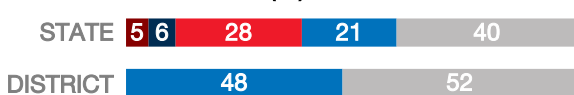


### NETWORK GEAR IN SCHOOLS

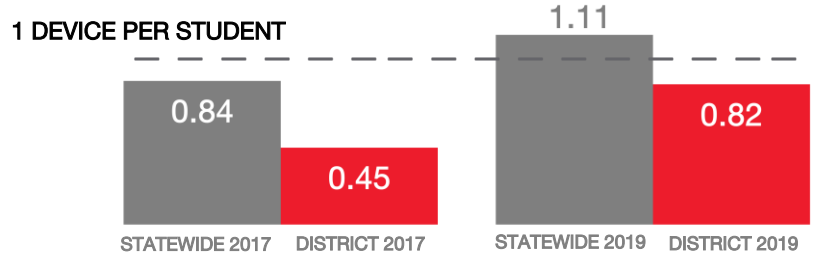
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

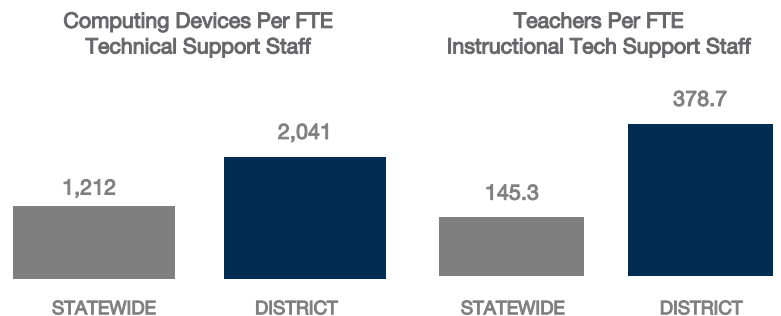
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	2,267	979	421	15%
Laptops   Windows OS	41	204	19	8%
Desktops   Mac	1	1	-4	-67%
Laptops   Mac	2	13	12	400%
Chromebooks   Google	7,169	12	3,970	124%
Tablets   Windows	0	0	-25	-100%
Tablets   Android	3	0	3	N/A
Tablets   IOS	203	314	384	289%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



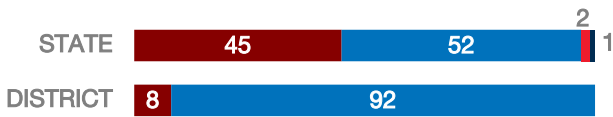
## Cache County School District

### DISTRICT FACTS

Area Population	71,858
Enrollment	18,393
Number of Schools	25
Urban or Rural	Urban
Median Household Income	\$71,257
Poverty Rate	7.8%

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



- 100% (All Rooms Covered)
- 80% - 99% Covered
- 60% - 79% Covered
- Less than 60% covered (or no Wi-Fi)

#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



- No noticeable slowdowns
- Slowdowns occur less than 10% of the time
- Slowdowns occur 10% - 20% of the time
- Slowdowns occur more than 20% of the time
- Other, or no Wi-Fi

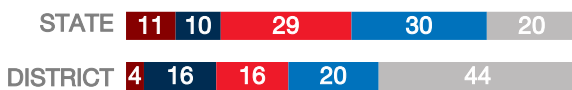
#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



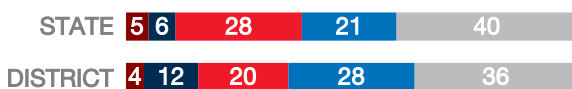
- Outside contractor conducted a professional Wi-Fi design
- In-house expert conducted a professional Wi-Fi design
- Wi-Fi network was not professionally designed
- Other network design choice, or no Wi-Fi

### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

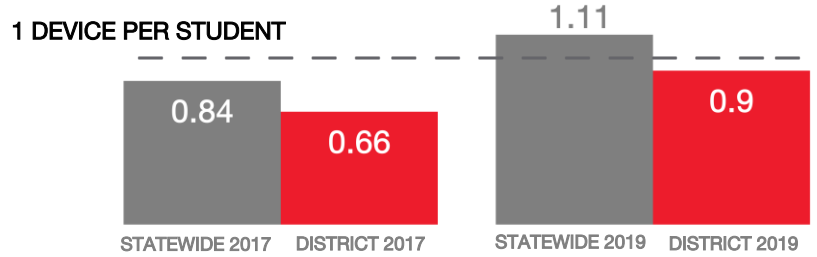


#### AGE OF WIRED GEAR (%)



- Less Than 1 Yr. Old
- 1 Year Old
- 2 Years Old
- 3 Years Old
- 4+ Years Old
- Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	2,303	1,270	-112	-3%
Laptops   Windows OS	281	928	1,130	1430%
Desktops   Mac	289	13	9	3%
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	12,483	0	4,382	54%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	1,143	773	-537	-22%

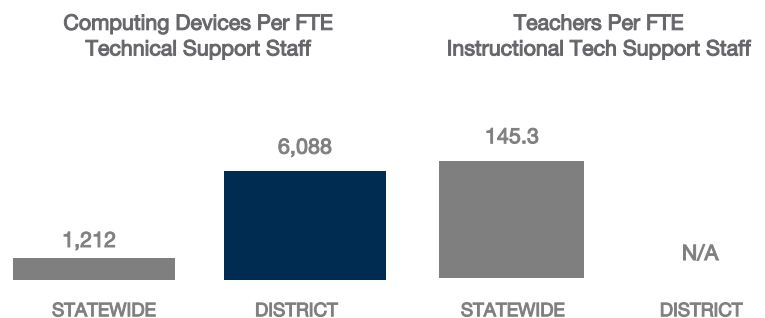
### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



- 1:1 basis (students can take the devices home)
- 1:1 basis (devices cannot be removed from school)
- Devices on a cart; only available for in-classroom use
- Devices only available for check-out (e.g. from the school library)
- No school-owned mobile devices; students can use personal devices
- No mobile device usage

### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





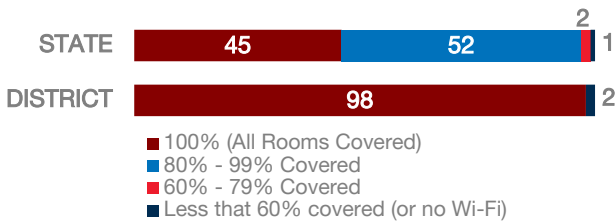
## Canyons School District

### DISTRICT FACTS

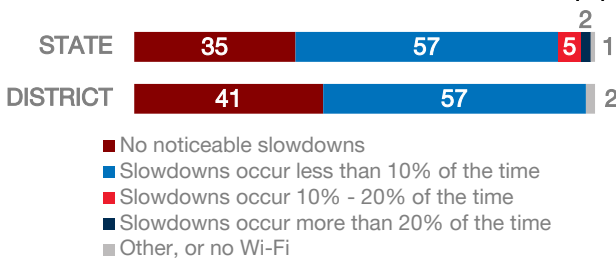
Area Population	218,404
Enrollment	34,134
Number of Schools	49
Urban or Rural	Urban
Median Household Income	\$85,585
Poverty Rate	6.9%

### WI-FI NETWORKS

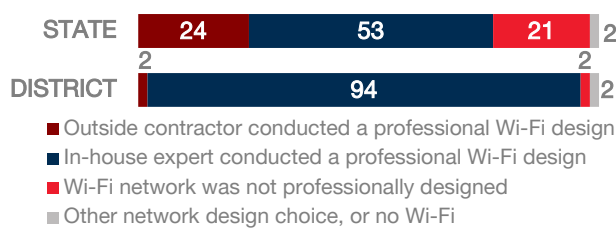
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

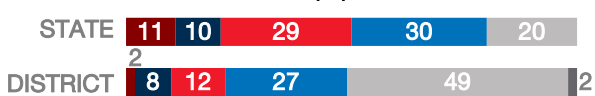


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

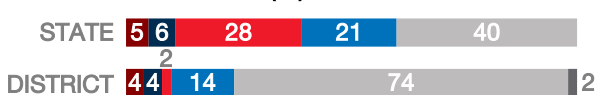


### NETWORK GEAR IN SCHOOLS

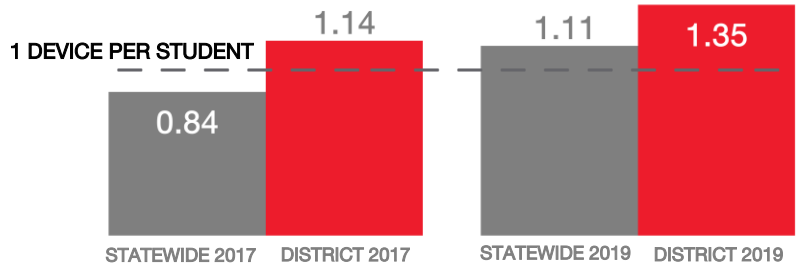
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

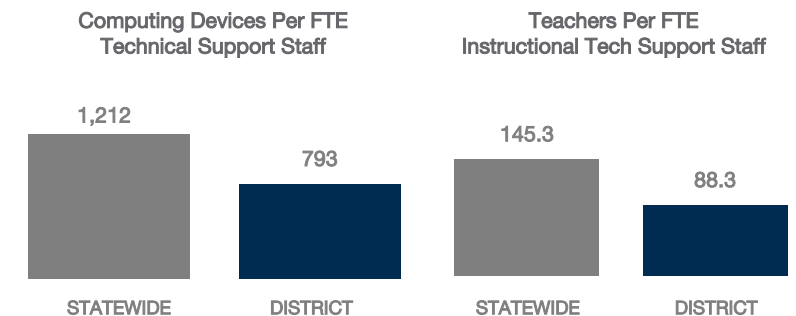
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	3,087	558	-308	-8%
Laptops   Windows OS	499	445	36	4%
Desktops   Mac	2,087	396	-244	-9%
Laptops   Mac	2,009	2,225	-1,031	-20%
Chromebooks   Google	29,820	50	8,265	38%
Tablets   Windows	0	6	-2	-25%
Tablets   Android	22	13	-127	-78%
Tablets   IOS	8,574	1,748	1,262	14%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



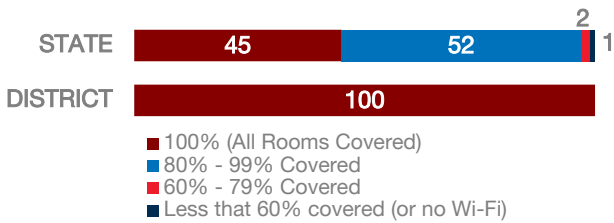
## Carbon School District

### DISTRICT FACTS

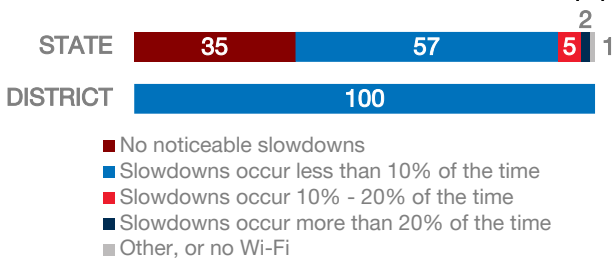
Area Population	20,356
Enrollment	3,636
Number of Schools	9
Urban or Rural	Rural
Median Household Income	\$50,278
Poverty Rate	15.8%

### WI-FI NETWORKS

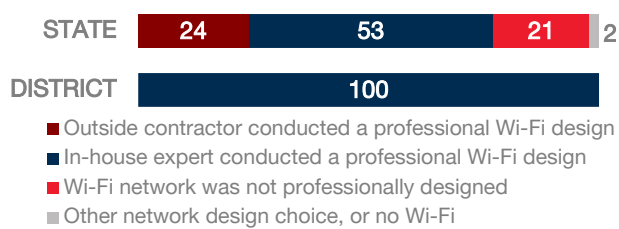
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

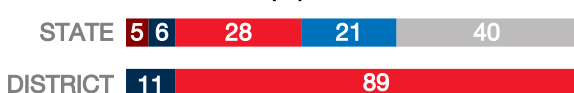


### NETWORK GEAR IN SCHOOLS

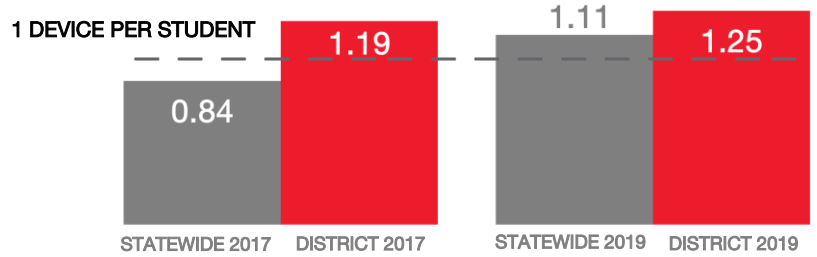
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

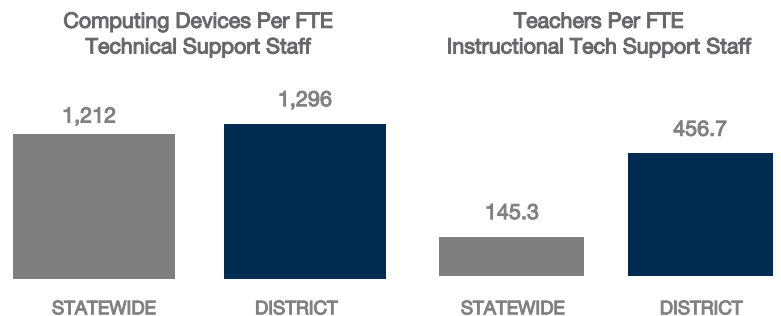
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	519	310	-63	-7%
Laptops   Windows OS	233	32	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	3,454	266	384	12%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	330	40	-22	-6%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



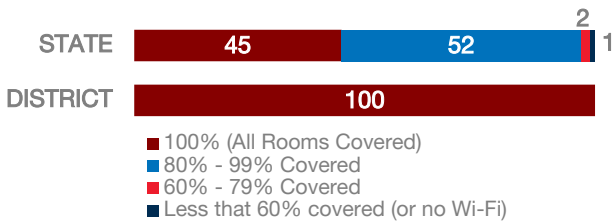
## Daggett School District

### DISTRICT FACTS

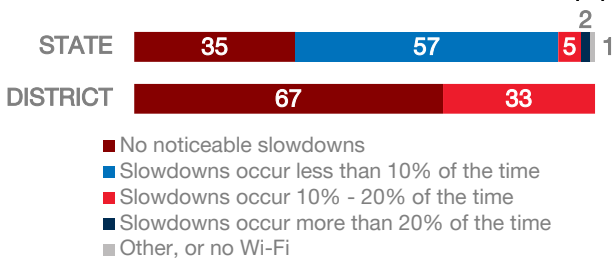
Area Population	612
Enrollment	206
Number of Schools	3
Urban or Rural	Rural
Median Household Income	\$81,250
Poverty Rate	4.7%

### WI-FI NETWORKS

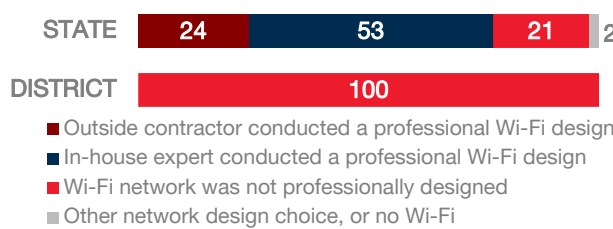
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

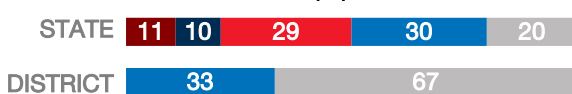


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

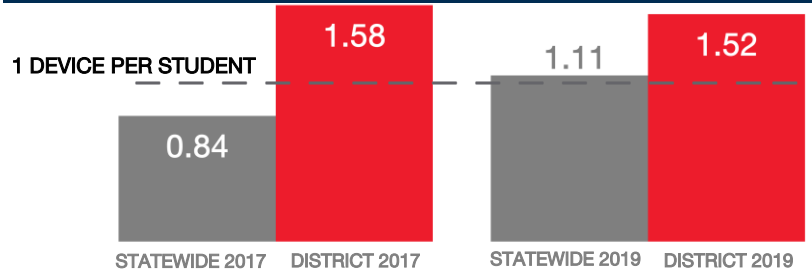


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr.Old   ■ 1 Year Old   ■ 2 Years Old  
■ 3 Years Old   ■ 4+ Years Old   ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	3	0	0%
Laptops   Windows OS	0	0	0	N/A
Desktops   Mac	72	18	-5	-5%
Laptops   Mac	166	10	-1	-1%
Chromebooks   Google	8	0	8	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	68	20	0	0%

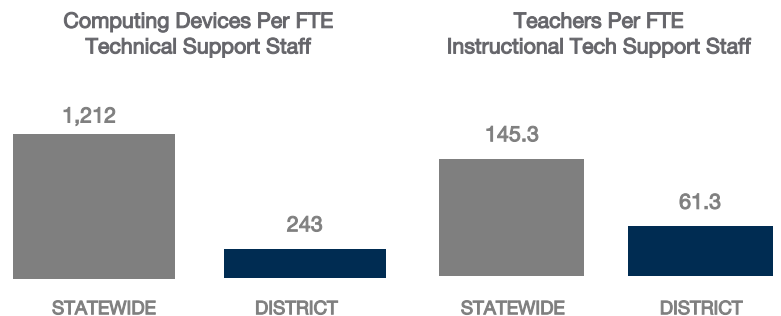
### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



- 1:1 basis (students can take the devices home)
- 1:1 basis (devices cannot be removed from school)
- Devices on a cart; only available for in-classroom use
- Devices only available for check-out (e.g. from the school library)
- No school-owned mobile devices; students can use personal devices
- No mobile device usage

### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





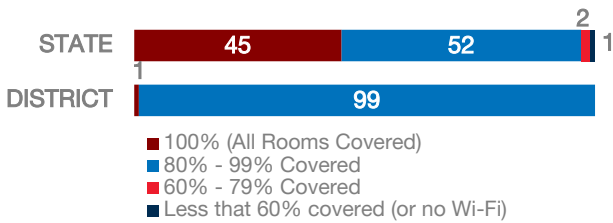
## Davis School District

### DISTRICT FACTS

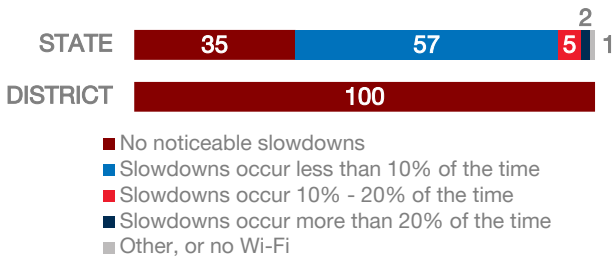
Area Population	340,621
Enrollment	72,904
Number of Schools	90
Urban or Rural	Urban
Median Household Income	\$79,690
Poverty Rate	5.5%

### WI-FI NETWORKS

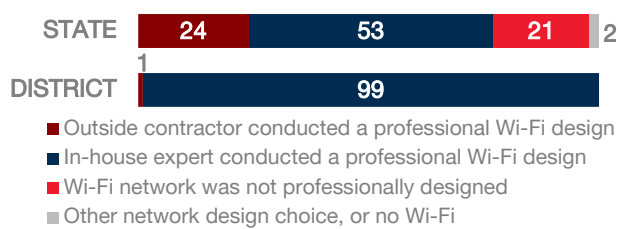
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

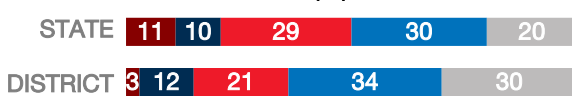


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

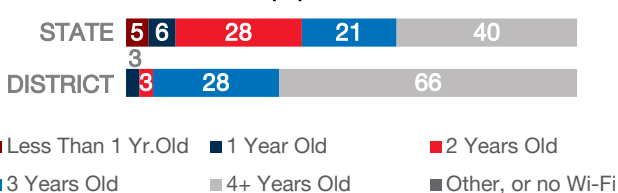


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

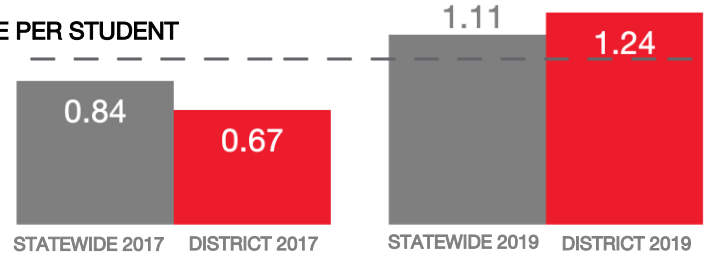


#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	10,150	5,930	-5,677	-26%
Laptops   Windows OS	39,385	882	29,858	287%
Desktops   Mac	43	12	-7	-11%
Laptops   Mac	66	64	4	3%
Chromebooks   Google	855	69	634	219%
Tablets   Windows	14,908	1,499	7,889	93%
Tablets   Android	115	142	130	102%
Tablets   IOS	25,104	3,808	9,305	47%

### MOBILE DEPLOYMENT

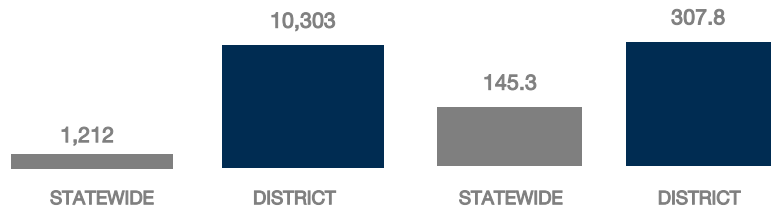
#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS

#### Computing Devices Per FTE Technical Support Staff

#### Teachers Per FTE Instructional Tech Support Staff



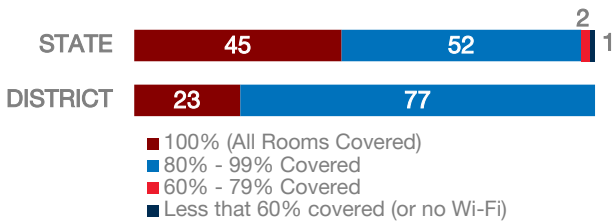
## Duchesne County School District

### DISTRICT FACTS

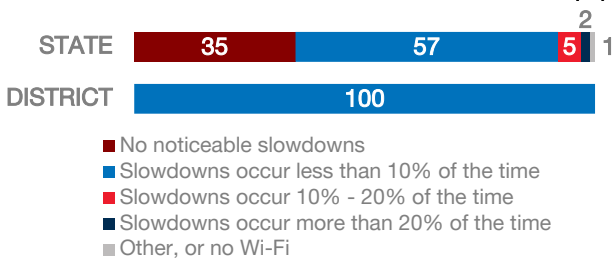
Area Population	20,219
Enrollment	5,343
Number of Schools	13
Urban or Rural	Rural
Median Household Income	\$63,919
Poverty Rate	13.3%

### WI-FI NETWORKS

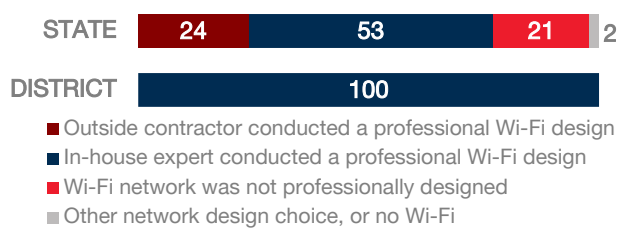
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

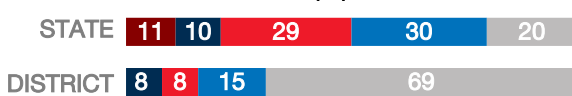


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

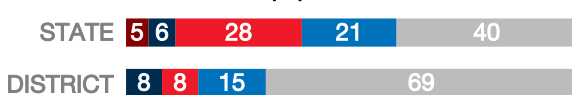


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



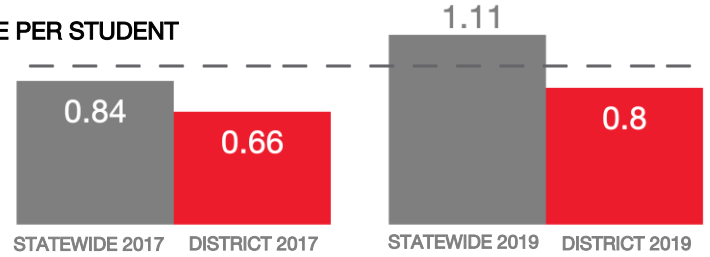
#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr.Old   ■ 1 Year Old   ■ 2 Years Old  
■ 3 Years Old   ■ 4+ Years Old   ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	340	65	-36	-8%
Laptops   Windows OS	235	109	2	1%
Desktops   Mac	707	191	0	0%
Laptops   Mac	415	353	4	1%
Chromebooks   Google	2,050	61	835	65%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	550	210	40	6%

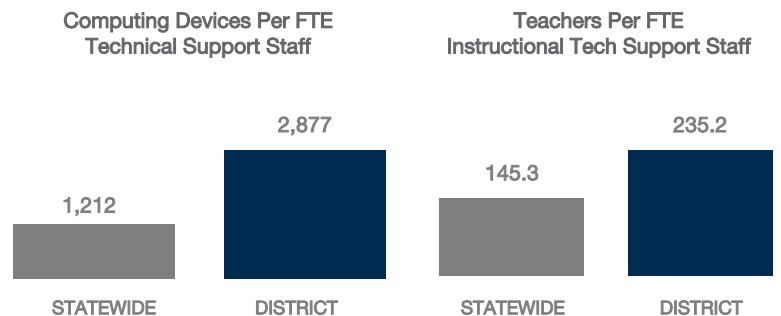
### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



- 1:1 basis (students can take the devices home)
- 1:1 basis (devices cannot be removed from school)
- Devices on a cart; only available for in-classroom use
- Devices only available for check-out (e.g. from the school library)
- No school-owned mobile devices; students can use personal devices
- No mobile device usage

### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



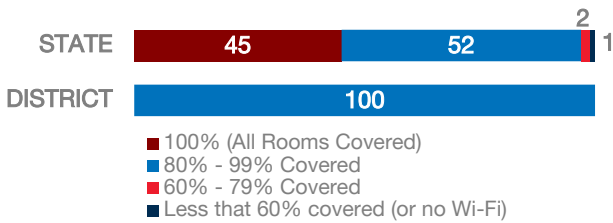
## Emery County School District

### DISTRICT FACTS

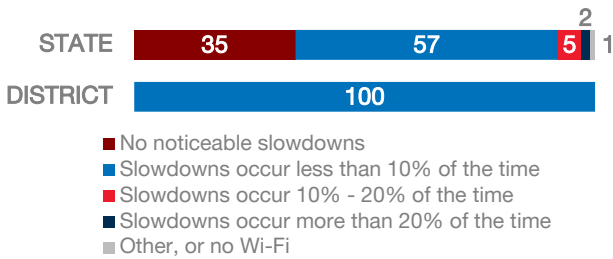
Area Population	10,248
Enrollment	2,293
Number of Schools	10
Urban or Rural	Rural
Median Household Income	\$52,055
Poverty Rate	12.8%

### WI-FI NETWORKS

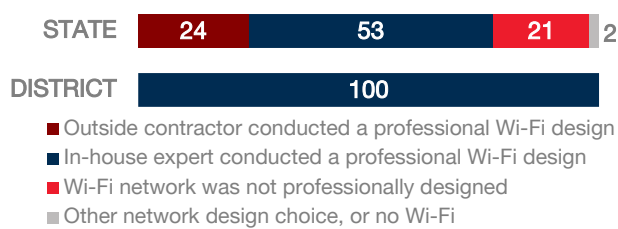
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

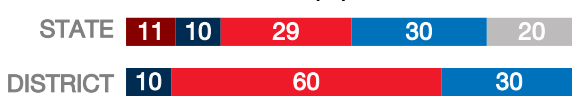


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

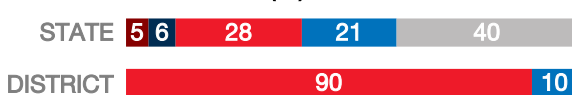


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

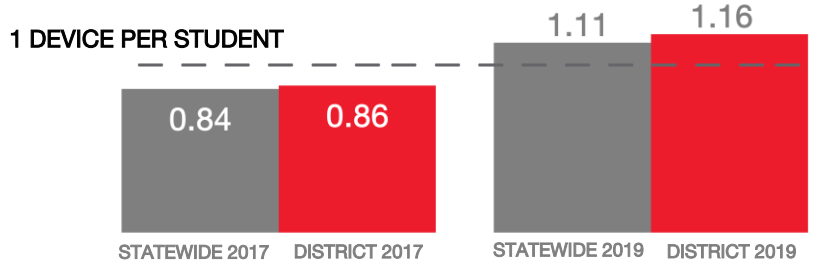


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr. Old    ■ 1 Year Old    ■ 2 Years Old  
■ 3 Years Old    ■ 4+ Years Old    ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	898	197	106	11%
Laptops   Windows OS	4	34	-1	-3%
Desktops   Mac	10	10	-27	-57%
Laptops   Mac	0	4	-7	-64%
Chromebooks   Google	1,328	10	615	85%
Tablets   Windows	0	0	0	N/A
Tablets   Android	5	0	0	0%
Tablets   IOS	339	0	-104	-23%

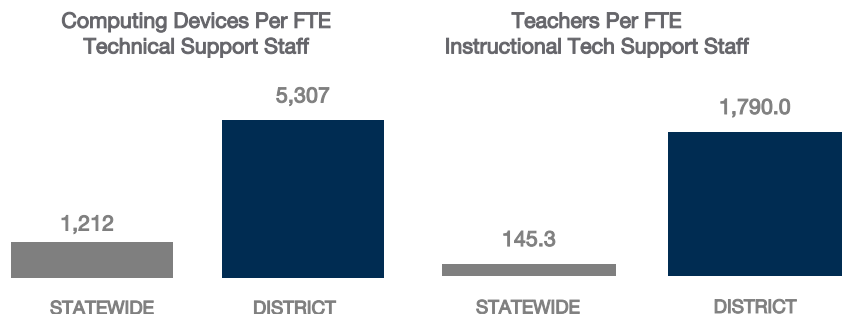
### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



- 1:1 basis (students can take the devices home)
- 1:1 basis (devices cannot be removed from school)
- Devices on a cart; only available for in-classroom use
- Devices only available for check-out (e.g. from the school library)
- No school-owned mobile devices; students can use personal devices
- No mobile device usage

### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



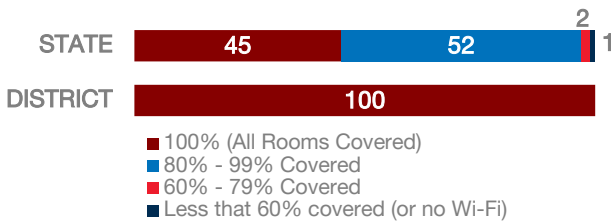
## Garfield County School District

### DISTRICT FACTS

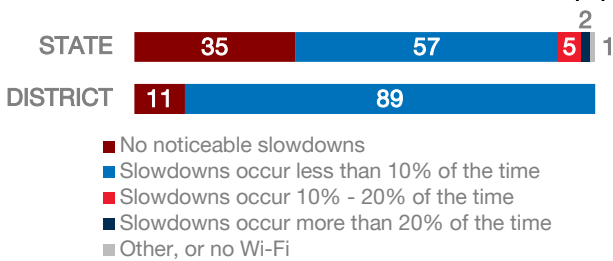
Area Population	5,017
Enrollment	903
Number of Schools	9
Urban or Rural	Rural
Median Household Income	\$52,337
Poverty Rate	17.8%

### WI-FI NETWORKS

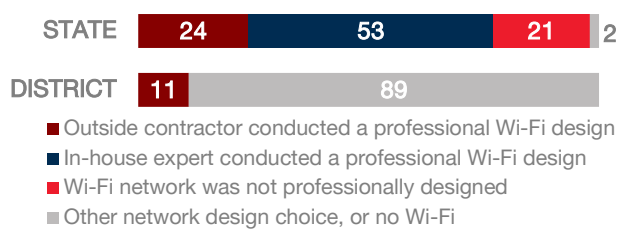
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

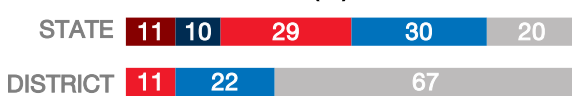


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

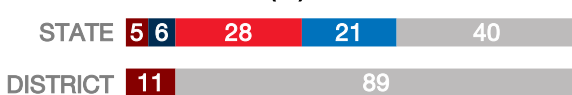


### NETWORK GEAR IN SCHOOLS

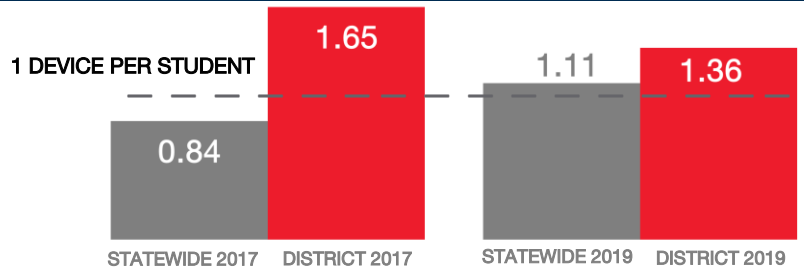
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

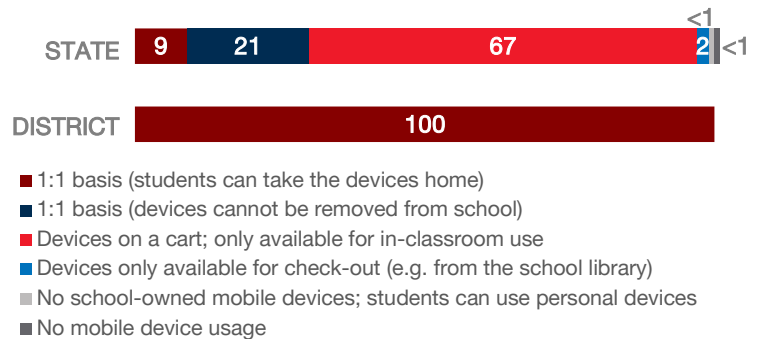


### COMPUTING DEVICES USED IN SCHOOLS

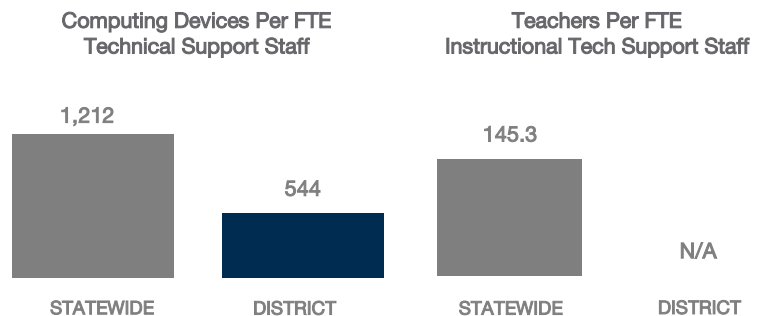
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	218	101	-87	-21%
Laptops   Windows OS	3	42	-36	-44%
Desktops   Mac	3	2	1	25%
Laptops   Mac	1	9	3	43%
Chromebooks   Google	973	52	43	4%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	-3	-100%
Tablets   IOS	26	24	10	25%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



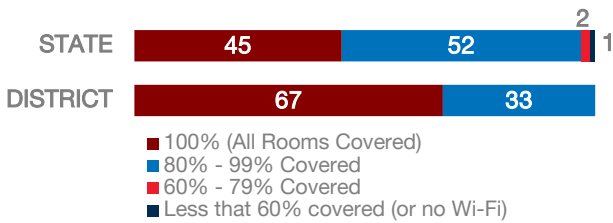
## Grand County School District

### DISTRICT FACTS

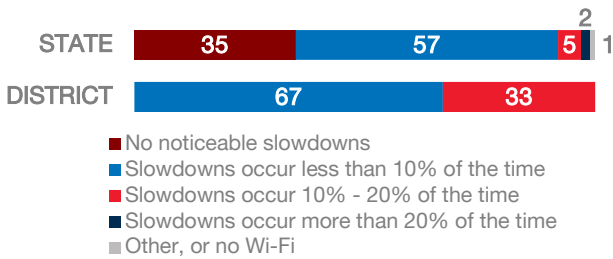
Area Population	10,189
Enrollment	1,498
Number of Schools	3
Urban or Rural	Rural
Median Household Income	\$48,202
Poverty Rate	8.6%

### WI-FI NETWORKS

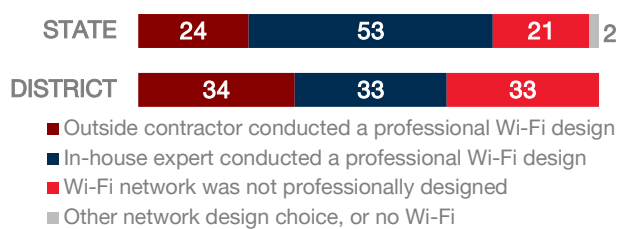
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

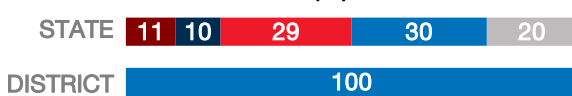


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

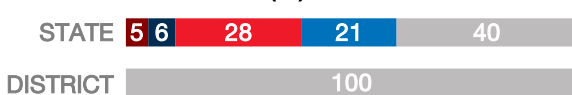


### NETWORK GEAR IN SCHOOLS

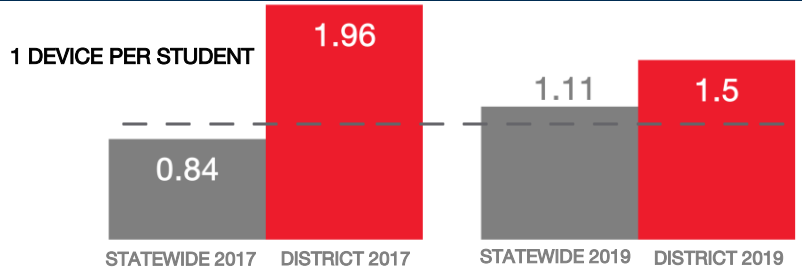
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

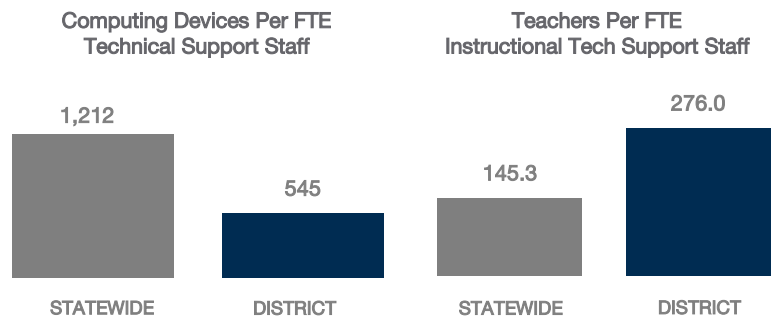
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	359	187	61	13%
Laptops   Windows OS	33	10	-77	-64%
Desktops   Mac	24	2	2	8%
Laptops   Mac	0	6	4	200%
Chromebooks   Google	1,773	6	829	87%
Tablets   Windows	0	0	0	N/A
Tablets   Android	25	0	-15	-38%
Tablets   IOS	40	42	42	105%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





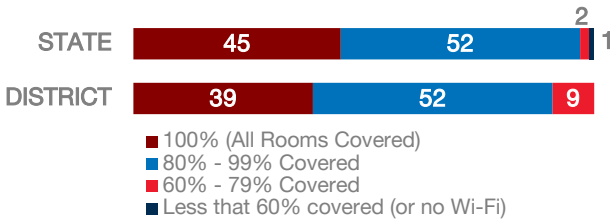
## Granite School District

### DISTRICT FACTS

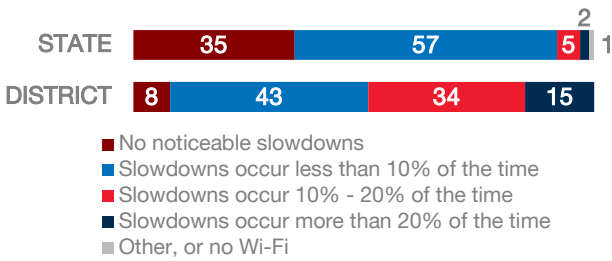
Area Population	398,901
Enrollment	65,586
Number of Schools	88
Urban or Rural	Urban
Median Household Income	\$63,450
Poverty Rate	11.2%

### WI-FI NETWORKS

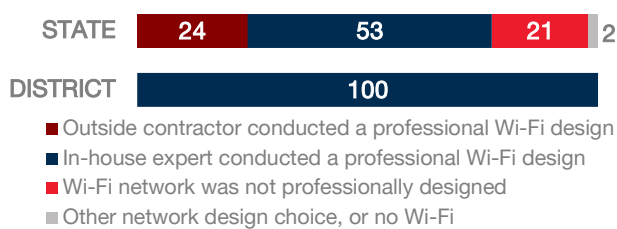
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

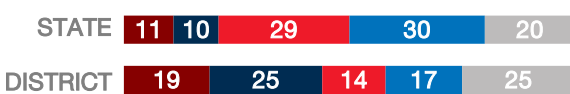


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

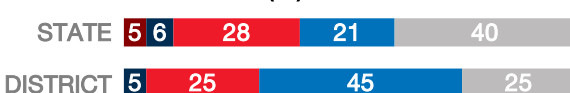


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

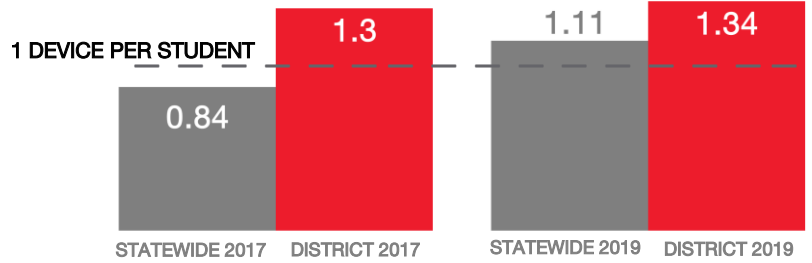


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr.Old ■ 1 Year Old ■ 2 Years Old  
 ■ 3 Years Old ■ 4+ Years Old ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

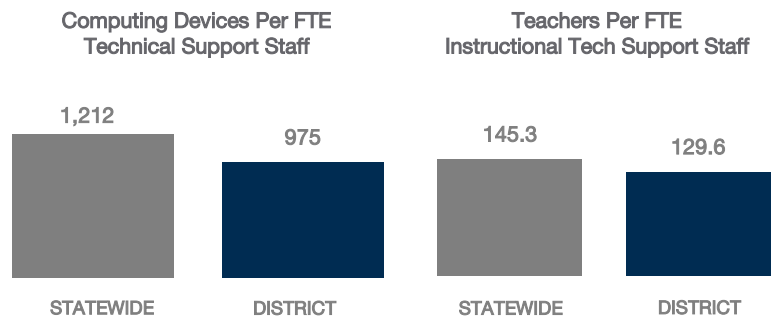
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	12,863	2,661	-9,715	-38%
Laptops   Windows OS	1,193	1,269	291	13%
Desktops   Mac	838	32	61	8%
Laptops   Mac	20	141	-83	-34%
Chromebooks   Google	68,301	0	8,906	15%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	4,795	18	-1,683	-26%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



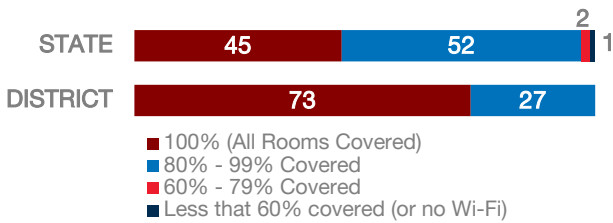
## Iron County School District

### DISTRICT FACTS

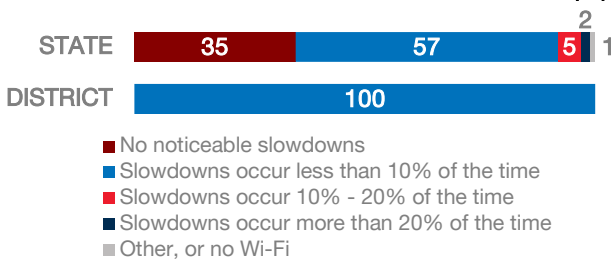
Area Population	49,691
Enrollment	9,547
Number of Schools	15
Urban or Rural	Rural
Median Household Income	\$46,809
Poverty Rate	19.6%

### WI-FI NETWORKS

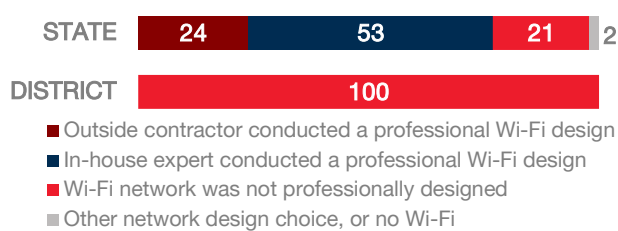
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

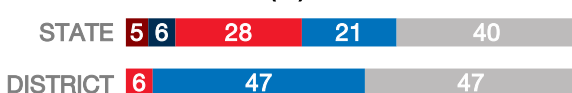


### NETWORK GEAR IN SCHOOLS

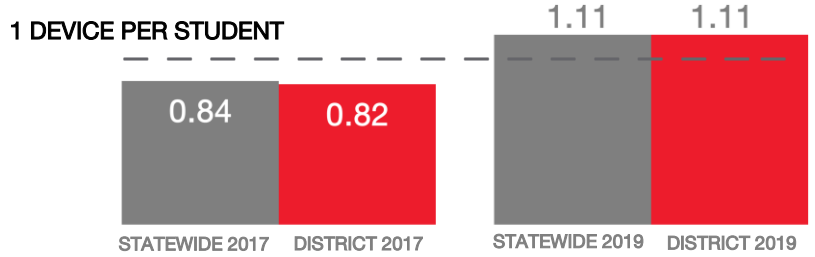
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

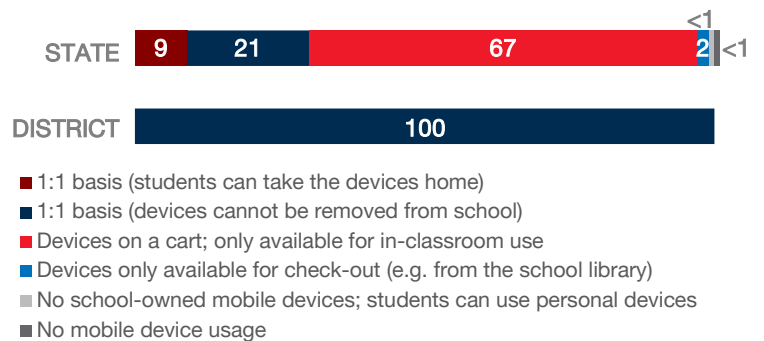


### COMPUTING DEVICES USED IN SCHOOLS

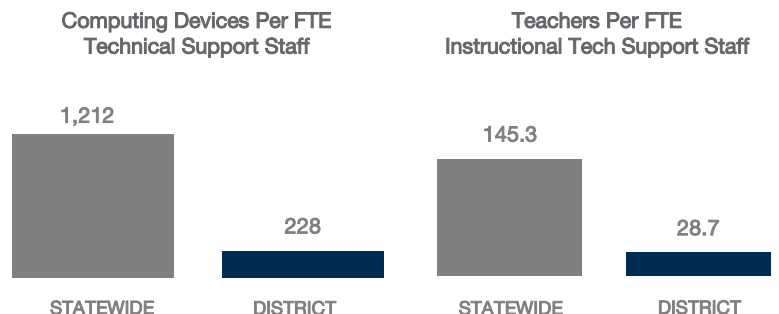
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	708	46	65	9%
Laptops   Windows OS	22	17	18	86%
Desktops   Mac	340	405	-286	-28%
Laptops   Mac	75	209	58	26%
Chromebooks   Google	8,984	16	2,942	49%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	1	1	N/A
Tablets   IOS	422	120	31	6%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



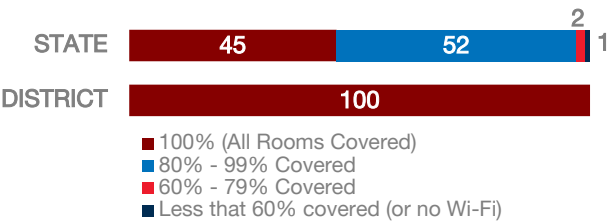
## Jordan School District

### DISTRICT FACTS

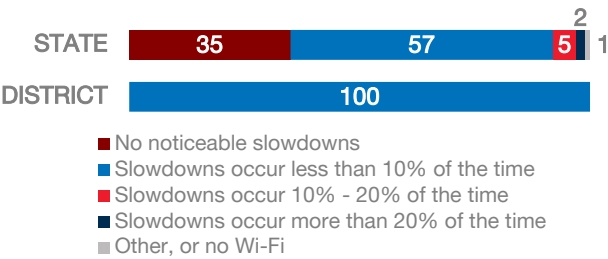
Area Population	269,775
Enrollment	56,574
Number of Schools	61
Urban or Rural	Urban
Median Household Income	\$90,408
Poverty Rate	4.2%

### WI-FI NETWORKS

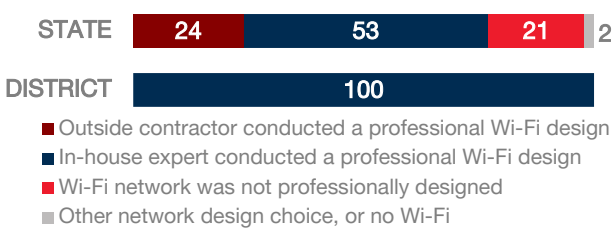
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

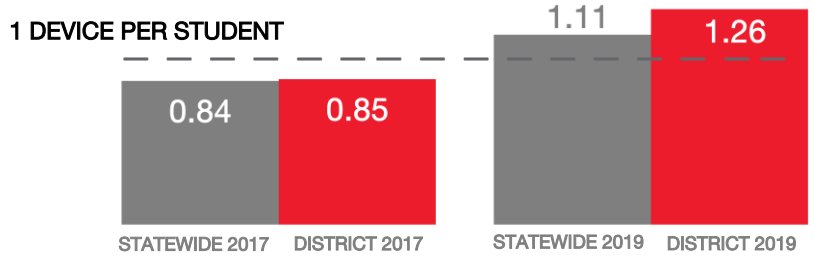


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr.Old ■ 1 Year Old ■ 2 Years Old  
■ 3 Years Old ■ 4+ Years Old ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

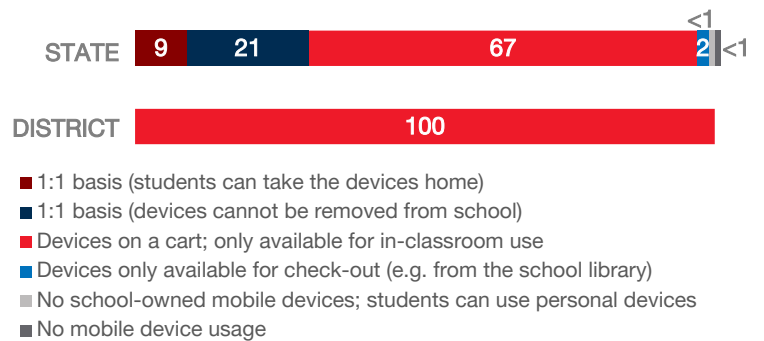


### COMPUTING DEVICES USED IN SCHOOLS

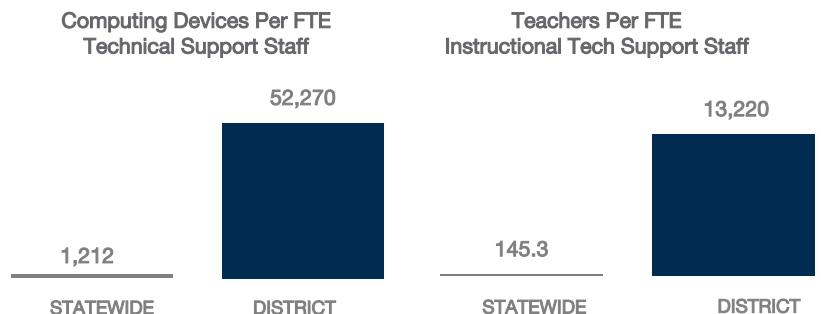
	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	5,267	980	-168	-3%
Laptops   Windows OS	1,686	1,106	-1,013	-27%
Desktops   Mac	1,899	522	-749	-24%
Laptops   Mac	5,115	2,662	735	10%
Chromebooks   Google	50,378	92	27,307	118%
Tablets   Windows	0	0	-16	-100%
Tablets   Android	24	0	7	41%
Tablets   IOS	6,775	2,794	-273	-3%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





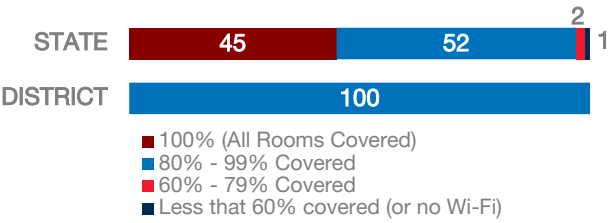
## Juab School District

### DISTRICT FACTS

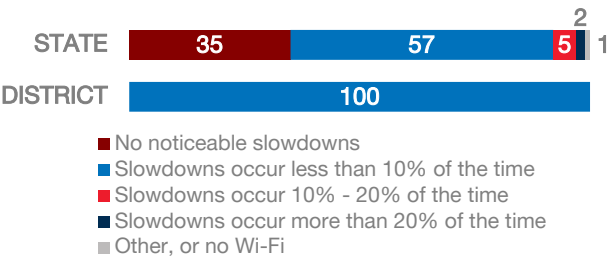
Area Population	10,183
Enrollment	2,685
Number of Schools	5
Urban or Rural	Rural
Median Household Income	\$63,242
Poverty Rate	11.2%

### WI-FI NETWORKS

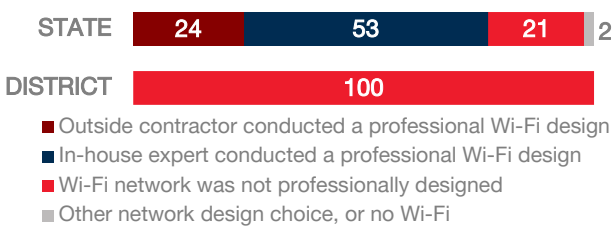
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

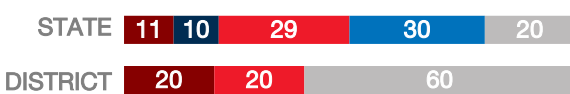


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

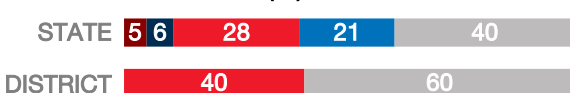


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

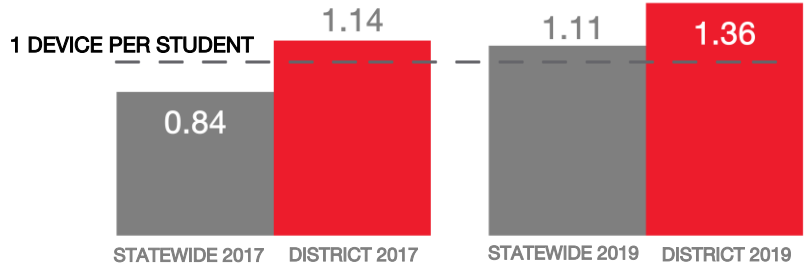


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr. Old    ■ 1 Year Old    ■ 2 Years Old  
■ 3 Years Old    ■ 4+ Years Old    ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	91	6	28	41%
Laptops   Windows OS	20	8	11	65%
Desktops   Mac	383	21	-28	-6%
Laptops   Mac	29	257	7	3%
Chromebooks   Google	448	0	209	87%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	2,679	205	543	23%

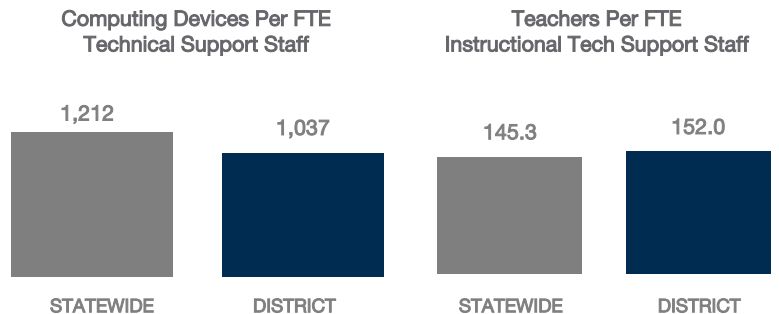
### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



- 1:1 basis (students can take the devices home)
- 1:1 basis (devices cannot be removed from school)
- Devices on a cart; only available for in-classroom use
- Devices only available for check-out (e.g. from the school library)
- No school-owned mobile devices; students can use personal devices
- No mobile device usage

### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



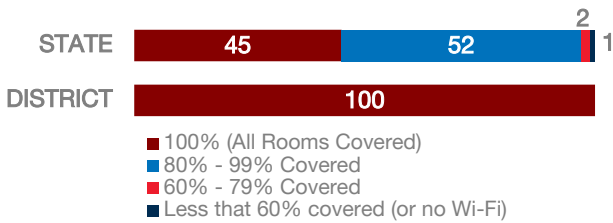
## Kane County School District

### DISTRICT FACTS

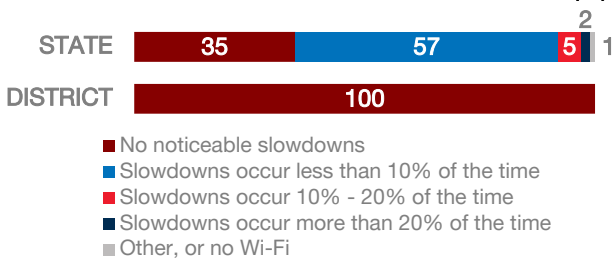
Area Population	7,350
Enrollment	1,253
Number of Schools	7
Urban or Rural	Rural
Median Household Income	\$48,269
Poverty Rate	12.8%

### WI-FI NETWORKS

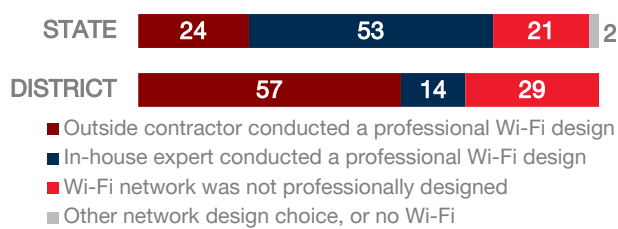
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

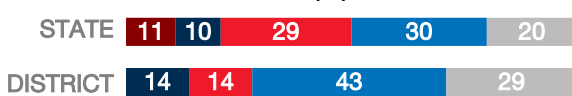


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

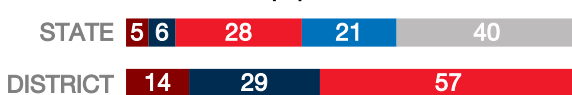


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

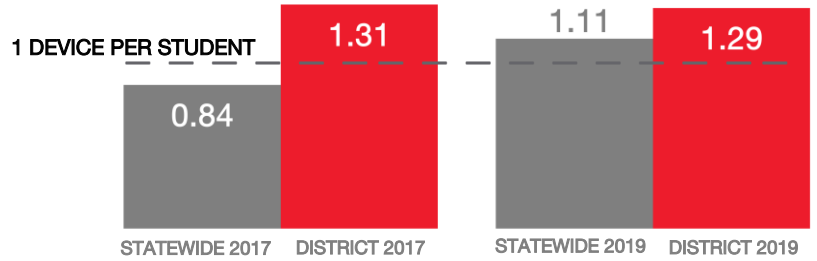


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr. Old 
 ■ 1 Year Old 
 ■ 2 Years Old 
 ■ 3 Years Old 
 ■ 4+ Years Old 
 ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

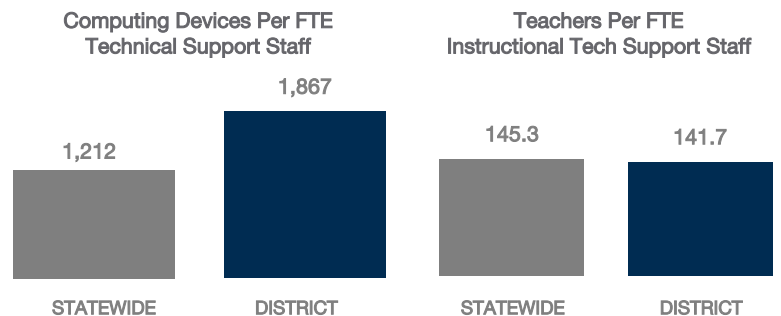
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	191	120	-88	-22%
Laptops   Windows OS	2	13	3	25%
Desktops   Mac	19	4	-7	-23%
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	1,369	69	62	5%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	20	40	-5	-8%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



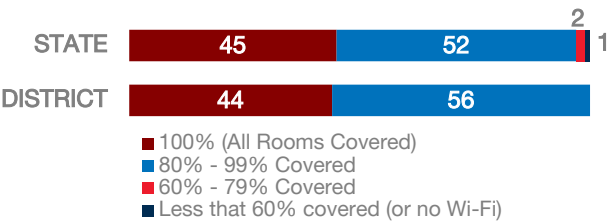
## Logan City School District

### DISTRICT FACTS

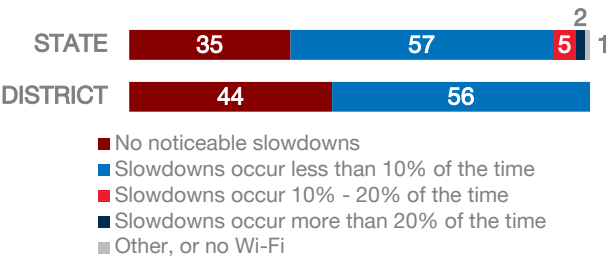
Area Population	50,478
Enrollment	5,533
Number of Schools	9
Urban or Rural	Urban
Median Household Income	\$39,693
Poverty Rate	26.3%

### WI-FI NETWORKS

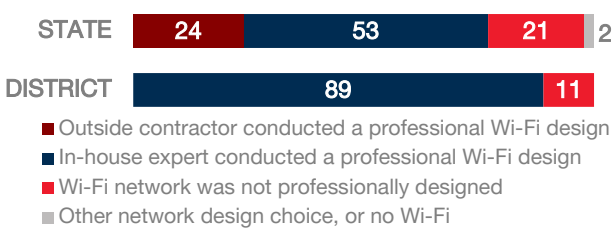
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

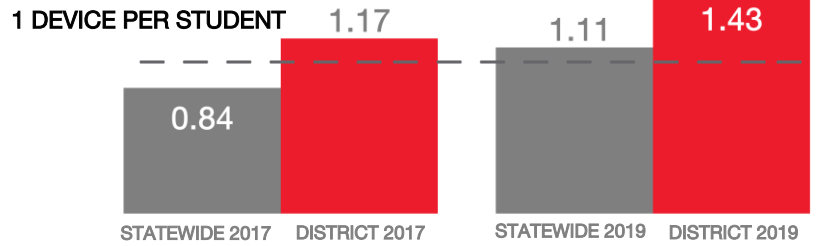
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

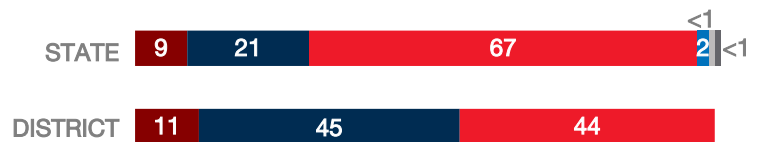


### COMPUTING DEVICES USED IN SCHOOLS

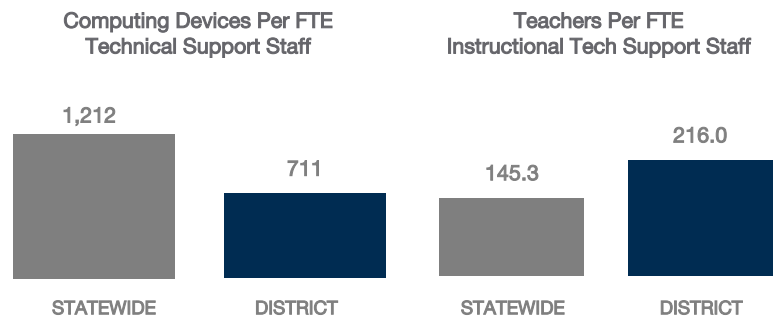
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	635	452	125	13%
Laptops   Windows OS	464	193	85	15%
Desktops   Mac	332	47	156	70%
Laptops   Mac	1,945	317	125	6%
Chromebooks   Google	4,151	0	993	31%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	397	315	81	13%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



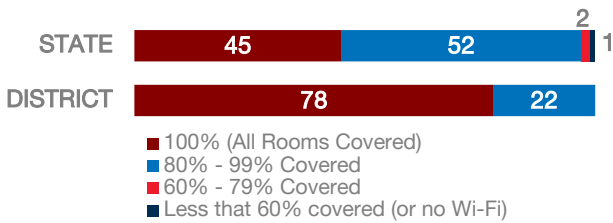
## Millard School District

### DISTRICT FACTS

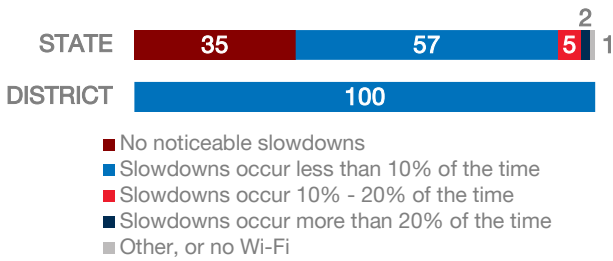
Area Population	12,733
Enrollment	2,968
Number of Schools	9
Urban or Rural	Rural
Median Household Income	\$60,445
Poverty Rate	11.4%

### WI-FI NETWORKS

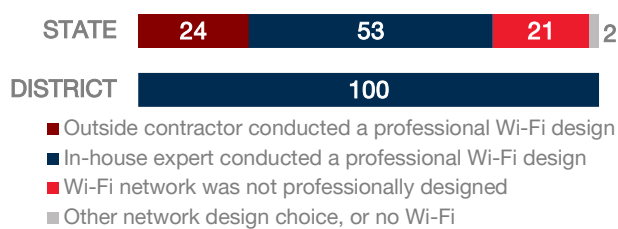
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

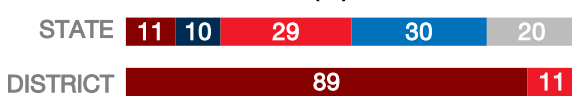


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

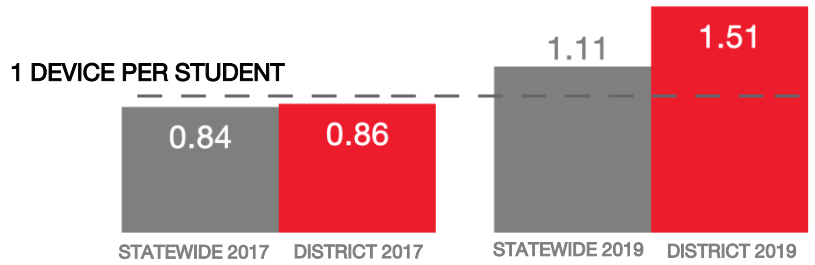
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

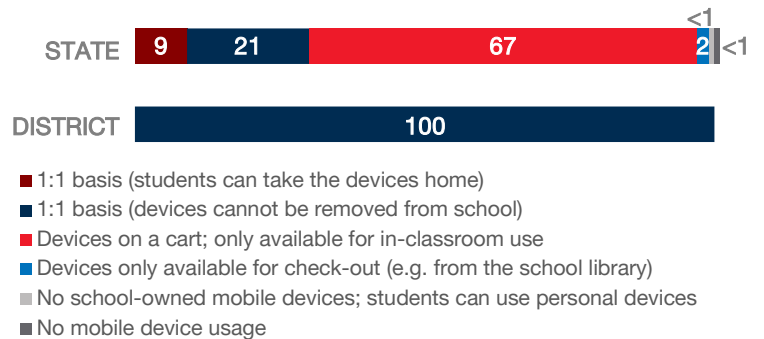


### COMPUTING DEVICES USED IN SCHOOLS

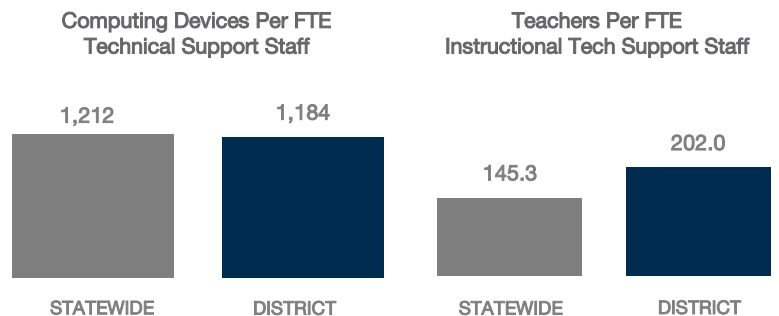
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	396	278	-428	-39%
Laptops   Windows OS	91	254	-135	-28%
Desktops   Mac	4	3	0	0%
Laptops   Mac	4	8	0	0%
Chromebooks   Google	3,736	425	2,102	102%
Tablets   Windows	5	18	4	21%
Tablets   Android	42	1	42	4200%
Tablets   IOS	196	132	24	8%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



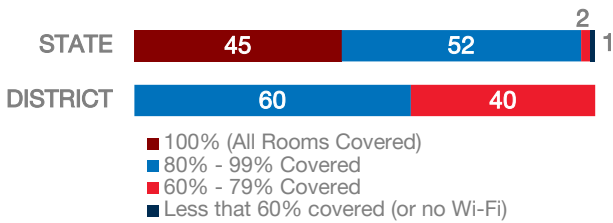
## Morgan County School District

### DISTRICT FACTS

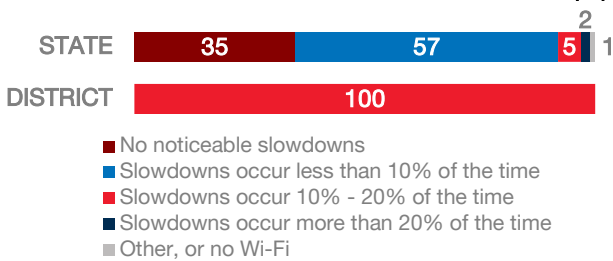
Area Population	11,391
Enrollment	3,183
Number of Schools	5
Urban or Rural	Rural
Median Household Income	\$89,274
Poverty Rate	3.0%

### WI-FI NETWORKS

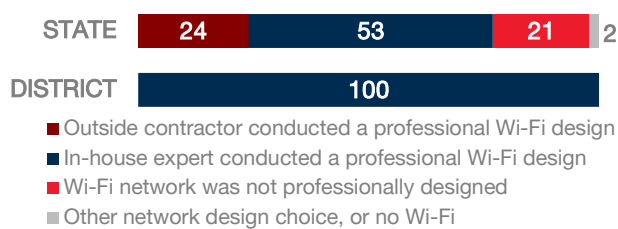
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

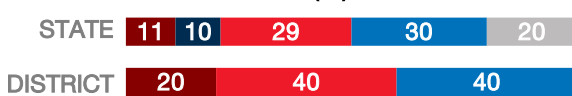


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

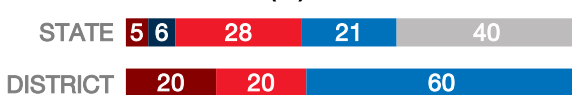


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

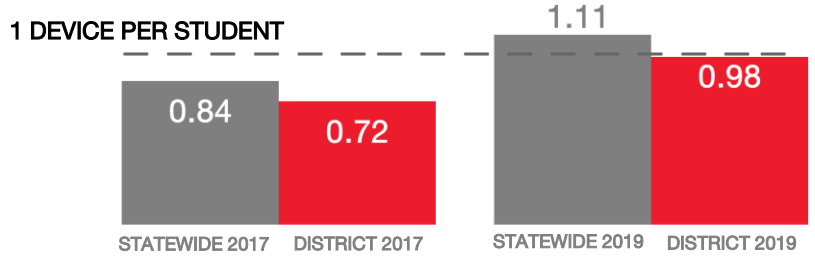


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr. Old    ■ 1 Year Old    ■ 2 Years Old  
■ 3 Years Old    ■ 4+ Years Old    ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

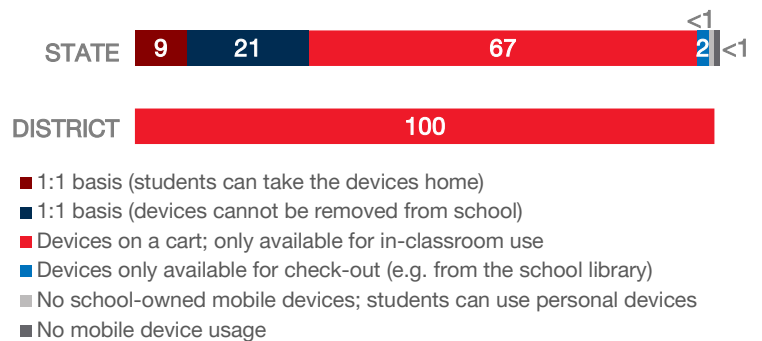


### COMPUTING DEVICES USED IN SCHOOLS

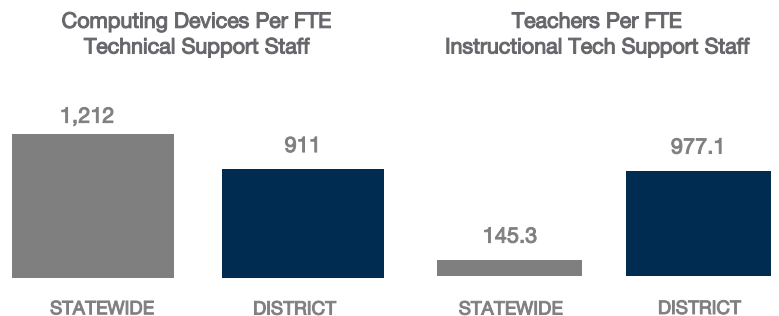
	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	238	159	104	35%
Laptops   Windows OS	70	60	25	24%
Desktops   Mac	36	2	0	0%
Laptops   Mac	0	3	0	0%
Chromebooks   Google	2,375	40	730	43%
Tablets   Windows	15	2	0	0%
Tablets   Android	180	2	0	0%
Tablets   IOS	165	30	65	50%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





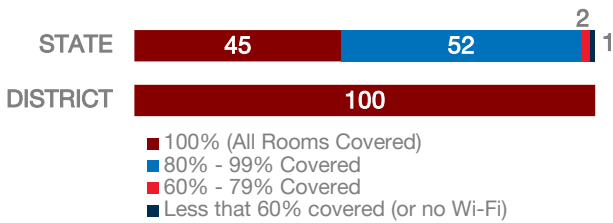
## Murray City School District

### DISTRICT FACTS

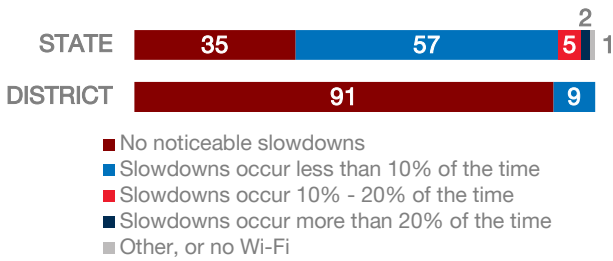
Area Population	38,033
Enrollment	6,555
Number of Schools	11
Urban or Rural	Urban
Median Household Income	\$59,829
Poverty Rate	8.6%

### WI-FI NETWORKS

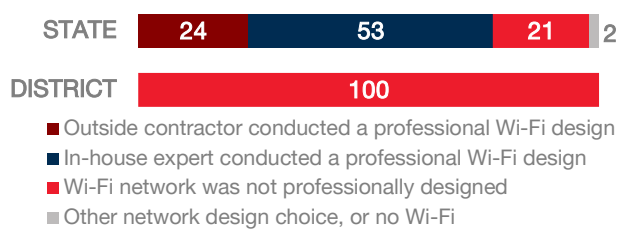
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

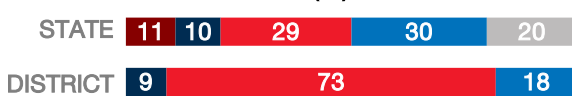


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

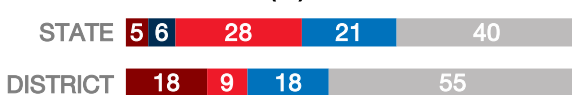


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

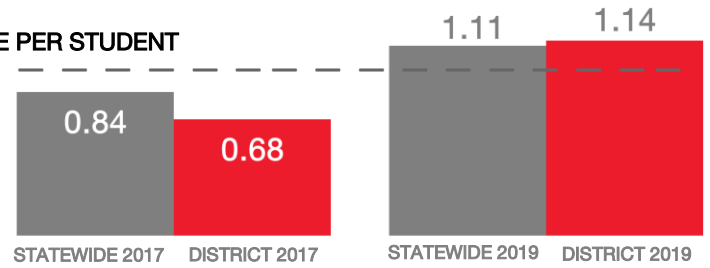


#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	825	65	-249	-22%
Laptops   Windows OS	71	387	-551	-55%
Desktops   Mac	72	0	-5	-6%
Laptops   Mac	0	190	123	184%
Chromebooks   Google	6,411	197	3,817	137%
Tablets   Windows	36	0	36	N/A
Tablets   Android	6	0	-18	-75%
Tablets   IOS	56	76	75	132%

### MOBILE DEPLOYMENT

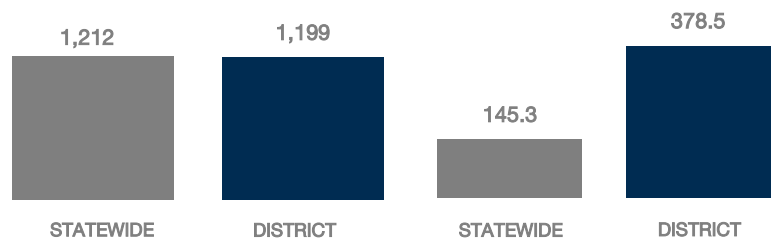
#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS

#### Computing Devices Per FTE Technical Support Staff

#### Teachers Per FTE Instructional Tech Support Staff



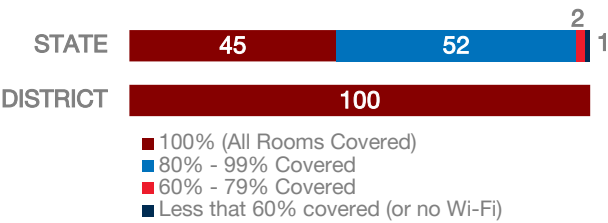
## Nebo School District

### DISTRICT FACTS

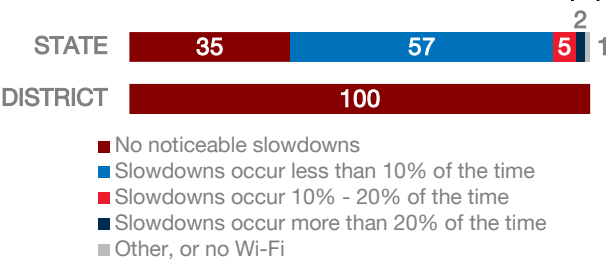
Area Population	133,493
Enrollment	34,062
Number of Schools	43
Urban or Rural	Urban
Median Household Income	\$72,576
Poverty Rate	6.8%

### WI-FI NETWORKS

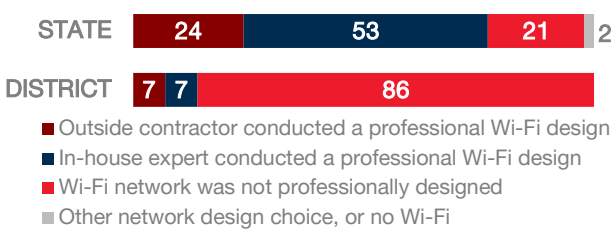
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

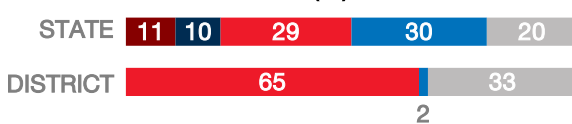


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

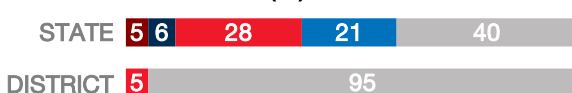


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

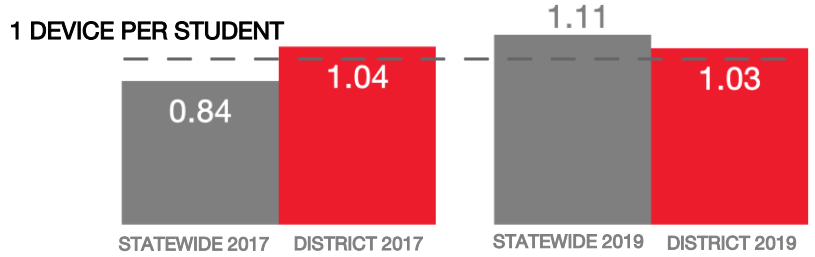


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr.Old   ■ 1 Year Old   ■ 2 Years Old  
■ 3 Years Old   ■ 4+ Years Old   ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	4,996	2,080	-2,756	-28%
Laptops   Windows OS	0	215	3	1%
Desktops   Mac	200	1	1	1%
Laptops   Mac	0	24	24	N/A
Chromebooks   Google	26,362	0	3,118	13%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	3,680	2,153	477	9%

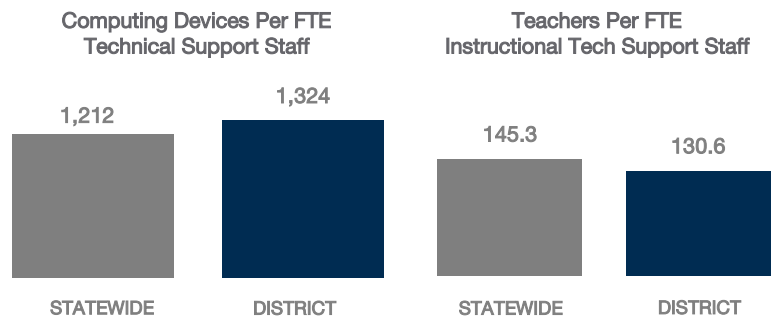
### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



- 1:1 basis (students can take the devices home)
- 1:1 basis (devices cannot be removed from school)
- Devices on a cart; only available for in-classroom use
- Devices only available for check-out (e.g. from the school library)
- No school-owned mobile devices; students can use personal devices
- No mobile device usage

### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



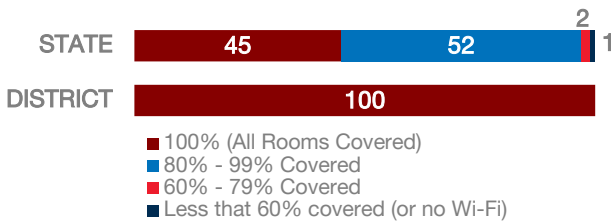
## North Sanpete School District

### DISTRICT FACTS

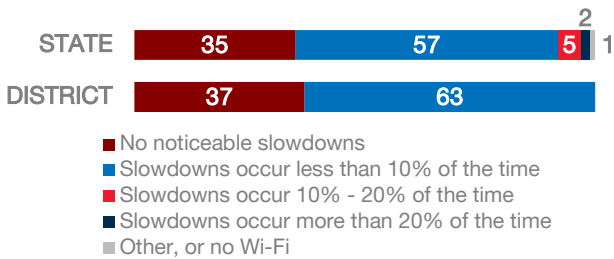
Area Population	11,708
Enrollment	2,666
Number of Schools	8
Urban or Rural	Rural
Median Household Income	\$55,464
Poverty Rate	14.4%

### WI-FI NETWORKS

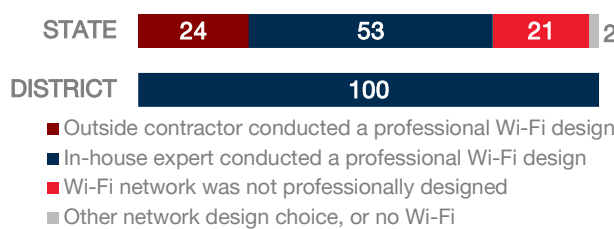
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

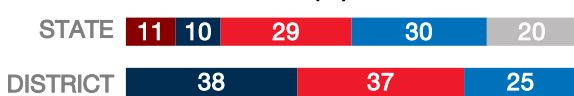


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

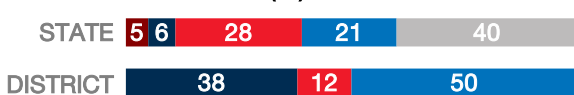


### NETWORK GEAR IN SCHOOLS

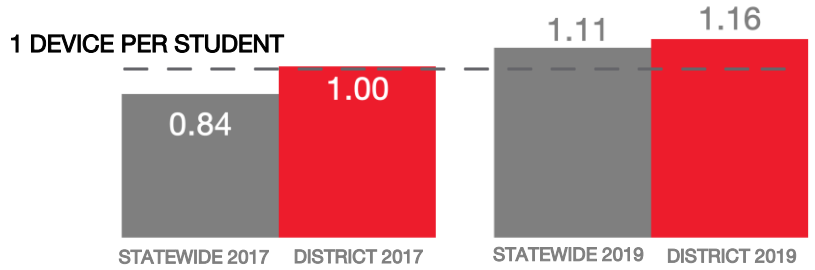
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

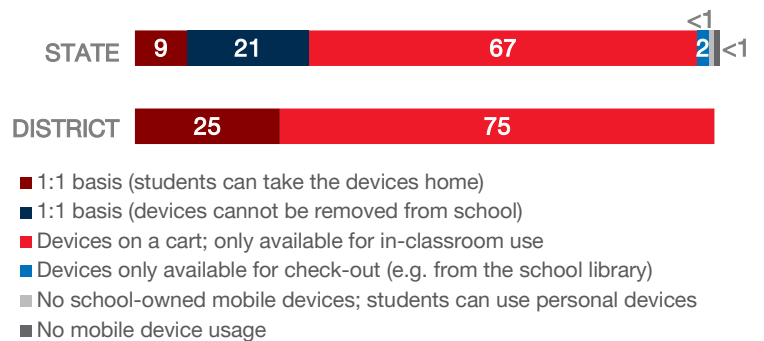


### COMPUTING DEVICES USED IN SCHOOLS

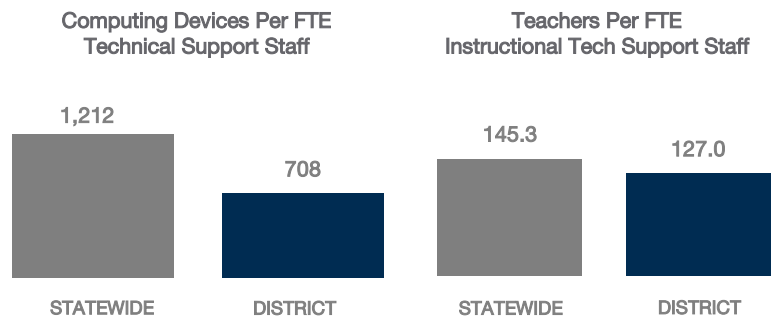
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	115	5	-26	-18%
Laptops   Windows OS	0	1	-2	-67%
Desktops   Mac	466	19	14	3%
Laptops   Mac	409	161	46	9%
Chromebooks   Google	240	3	88	57%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	1,860	133	474	31%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





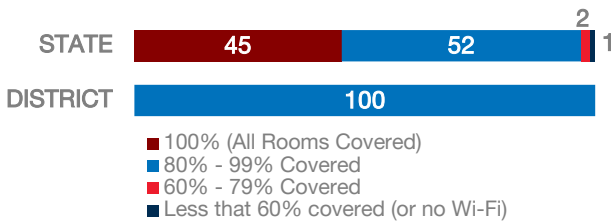
## North Summit School District

### DISTRICT FACTS

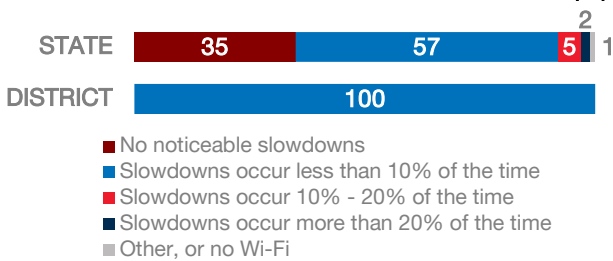
Area Population	5,899
Enrollment	1,016
Number of Schools	3
Urban or Rural	Rural
Median Household Income	\$82,109
Poverty Rate	4.6%

### WI-FI NETWORKS

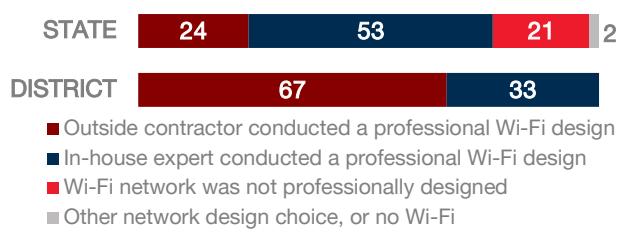
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

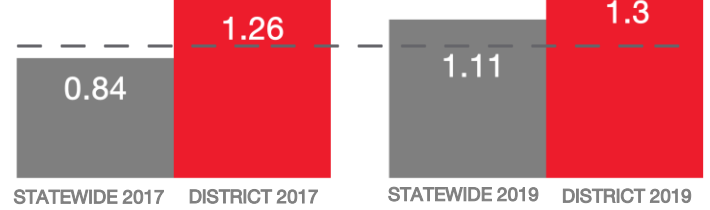


#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT

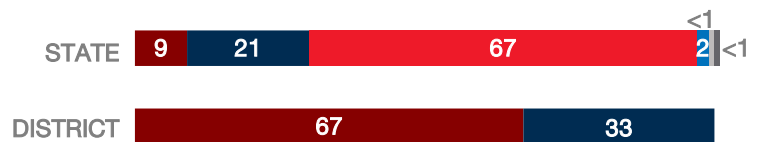


### COMPUTING DEVICES USED IN SCHOOLS

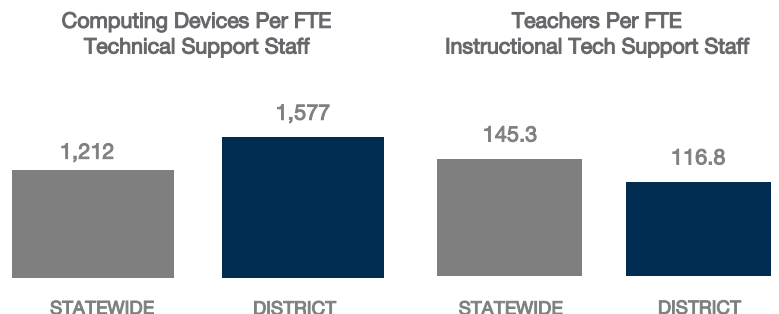
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	30	3	0	0%
Laptops   Windows OS	0	0	0	N/A
Desktops   Mac	172	35	-63	-23%
Laptops   Mac	720	140	35	4%
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	402	75	-7	-1%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



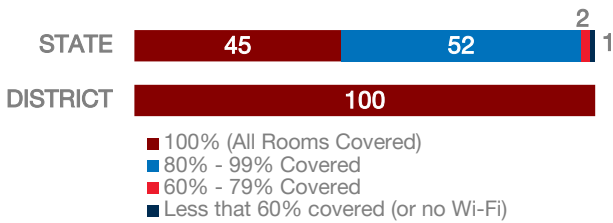
## Ogden City School District

### DISTRICT FACTS

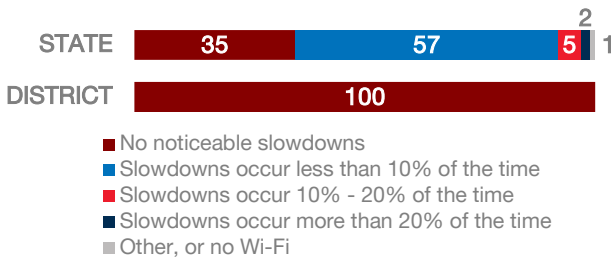
Area Population	86,126
Enrollment	11,466
Number of Schools	21
Urban or Rural	Urban
Median Household Income	\$46,807
Poverty Rate	19.6%

### WI-FI NETWORKS

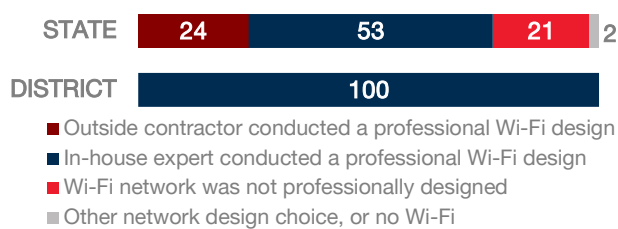
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

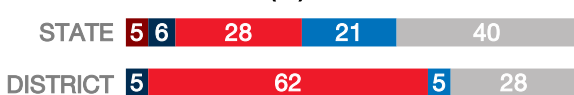


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

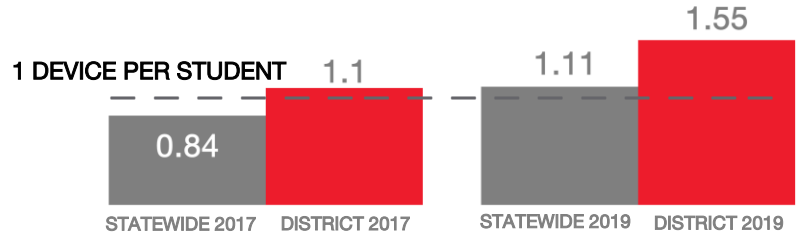


#### AGE OF WIRED GEAR (%)



- Less Than 1 Yr. Old
- 1 Year Old
- 2 Years Old
- 3 Years Old
- 4+ Years Old
- Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

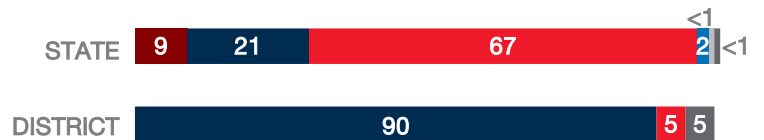


### COMPUTING DEVICES USED IN SCHOOLS

	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	3,584	1,175	-109	-2%
Laptops   Windows OS	882	102	-195	-17%
Desktops   Mac	55	2	-5	-8%
Laptops   Mac	0	8	0	0%
Chromebooks   Google	11,113	0	4,911	79%
Tablets   Windows	0	0	-18	-100%
Tablets   Android	0	0	0	N/A
Tablets   IOS	2,121	140	360	19%

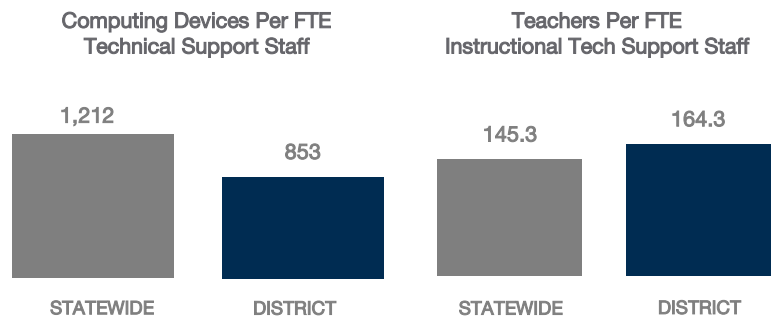
### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



- 1:1 basis (students can take the devices home)
- 1:1 basis (devices cannot be removed from school)
- Devices on a cart; only available for in-classroom use
- Devices only available for check-out (e.g. from the school library)
- No school-owned mobile devices; students can use personal devices
- No mobile device usage

### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



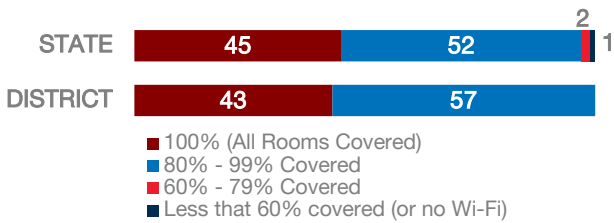
## Park City School District

### DISTRICT FACTS

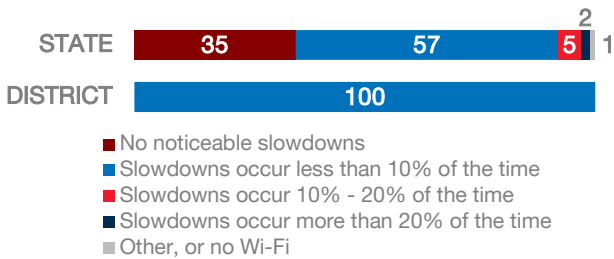
Area Population	26,916
Enrollment	4,795
Number of Schools	7
Urban or Rural	Rural
Median Household Income	\$119,523
Poverty Rate	6.9%

### WI-FI NETWORKS

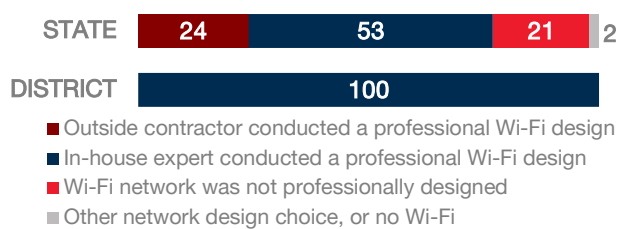
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

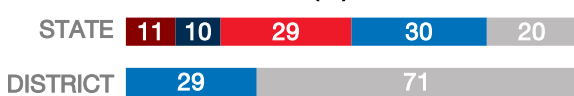


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

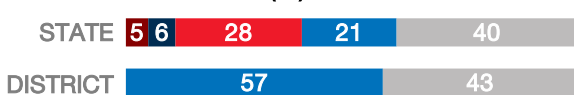


### NETWORK GEAR IN SCHOOLS

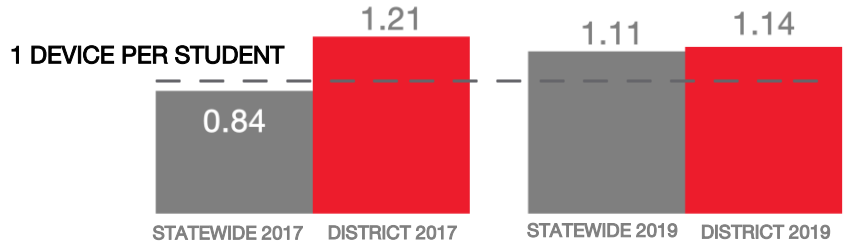
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

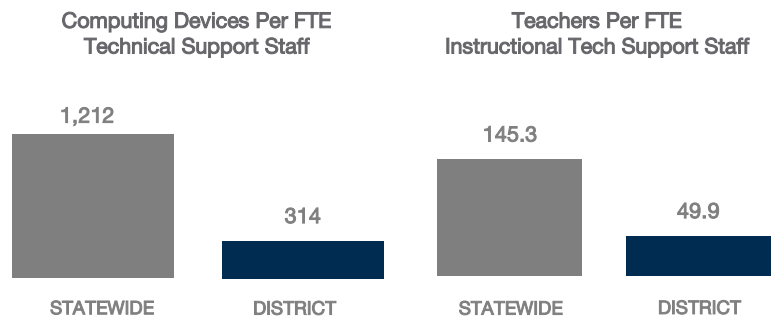
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	47	25	6	9%
Laptops   Windows OS	11	9	7	54%
Desktops   Mac	234	37	-1	0%
Laptops   Mac	4,537	485	-334	-6%
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	10	1	0	0%
Tablets   IOS	650	227	-93	-10%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



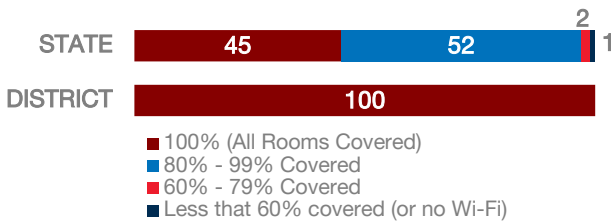
## Piute School District

### DISTRICT FACTS

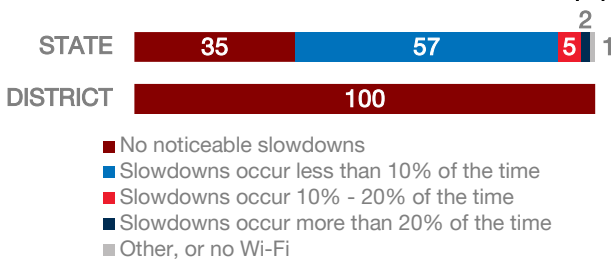
Area Population	1,904
Enrollment	306
Number of Schools	3
Urban or Rural	Rural
Median Household Income	\$39,440
Poverty Rate	17.1%

### WI-FI NETWORKS

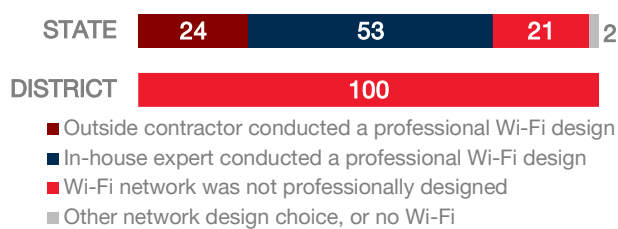
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

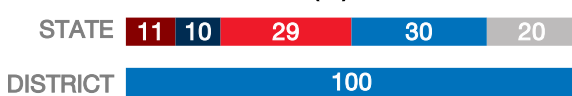


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

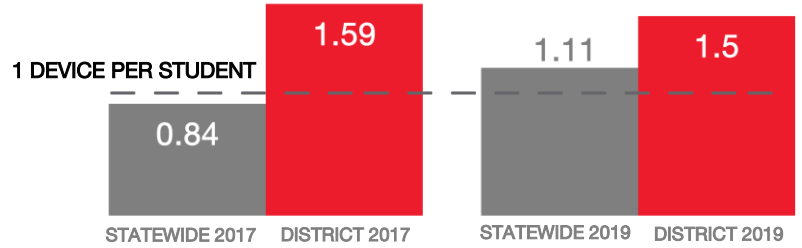
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

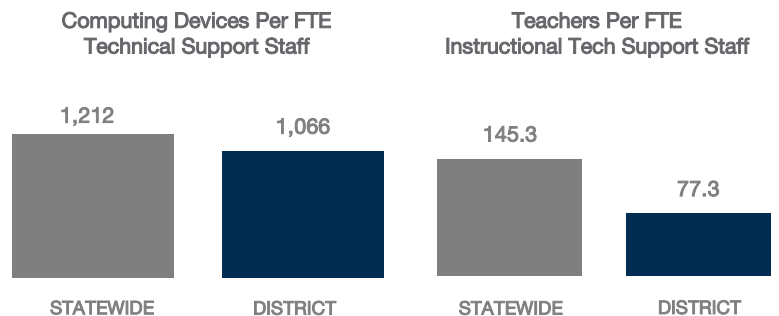
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	0	N/A
Laptops   Windows OS	0	0	-1	-100%
Desktops   Mac	49	32	-12	-13%
Laptops   Mac	106	8	42	58%
Chromebooks   Google	157	0	13	9%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	147	34	-68	-27%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



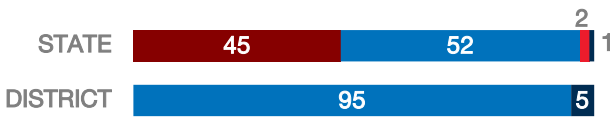
## Provo City School District

### DISTRICT FACTS

Area Population	115,858
Enrollment	16,586
Number of Schools	20
Urban or Rural	Urban
Median Household Income	\$46,635
Poverty Rate	25.9%

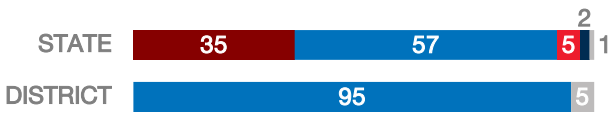
### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



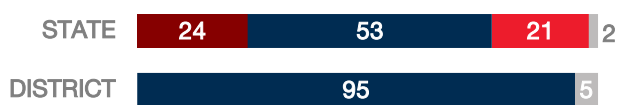
- 100% (All Rooms Covered)
- 80% - 99% Covered
- 60% - 79% Covered
- Less than 60% covered (or no Wi-Fi)

#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



- No noticeable slowdowns
- Slowdowns occur less than 10% of the time
- Slowdowns occur 10% - 20% of the time
- Slowdowns occur more than 20% of the time
- Other, or no Wi-Fi

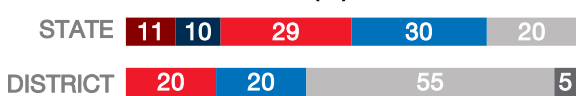
#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



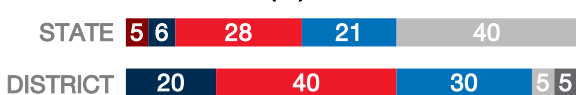
- Outside contractor conducted a professional Wi-Fi design
- In-house expert conducted a professional Wi-Fi design
- Wi-Fi network was not professionally designed
- Other network design choice, or no Wi-Fi

### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

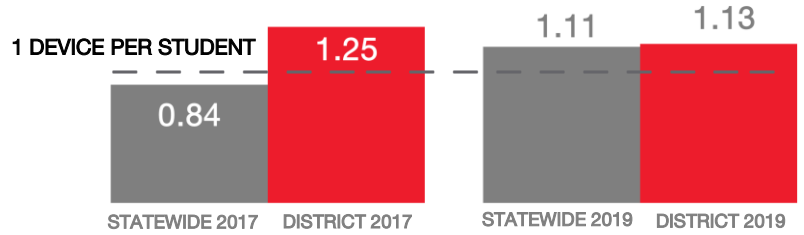


#### AGE OF WIRED GEAR (%)



- Less Than 1 Yr.Old
- 1 Year Old
- 2 Years Old
- 3 Years Old
- 4+ Years Old
- Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	890	93	-276	-22%
Laptops   Windows OS	92	73	-24	-13%
Desktops   Mac	1,313	54	-1,260	-48%
Laptops   Mac	778	942	-367	-18%
Chromebooks   Google	14,021	153	3,941	39%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	1,611	460	-1,062	-34%

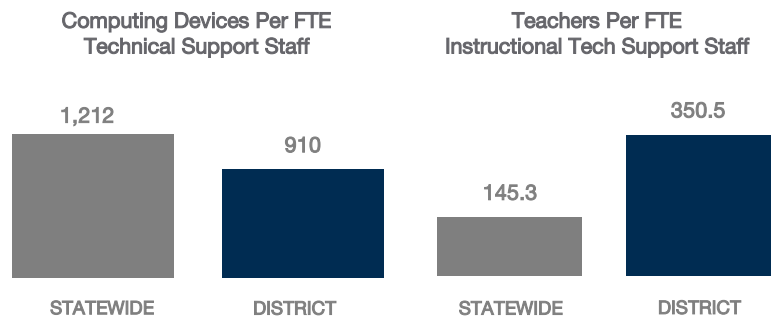
### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



- 1:1 basis (students can take the devices home)
- 1:1 basis (devices cannot be removed from school)
- Devices on a cart; only available for in-classroom use
- Devices only available for check-out (e.g. from the school library)
- No school-owned mobile devices; students can use personal devices
- No mobile device usage

### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





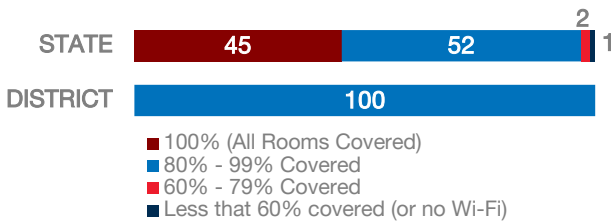
## Rich School District

### DISTRICT FACTS

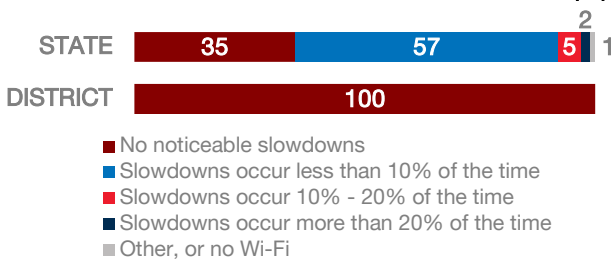
Area Population	2,350
Enrollment	499
Number of Schools	4
Urban or Rural	Rural
Median Household Income	\$49,886
Poverty Rate	15.9%

### WI-FI NETWORKS

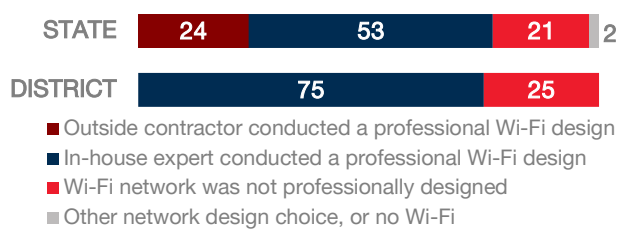
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

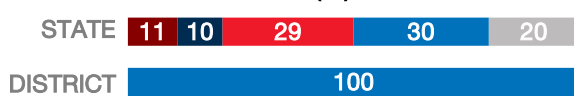


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

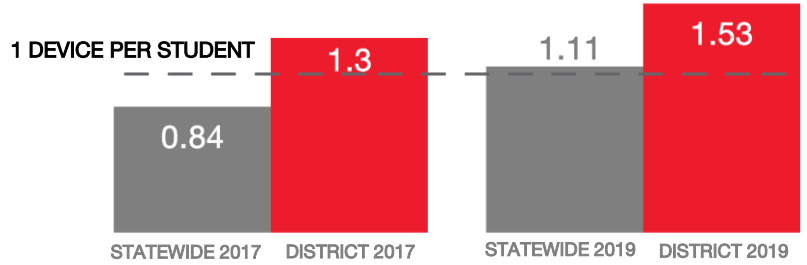
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

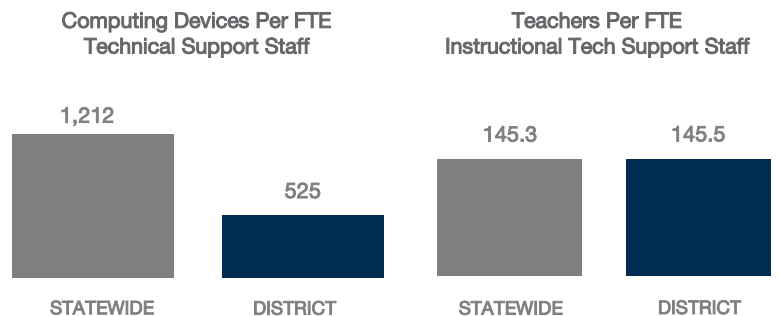
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	103	35	2	1%
Laptops   Windows OS	39	23	18	41%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	375	30	44	12%
Tablets   Android	0	0	0	N/A
Tablets   IOS	245	16	23	10%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



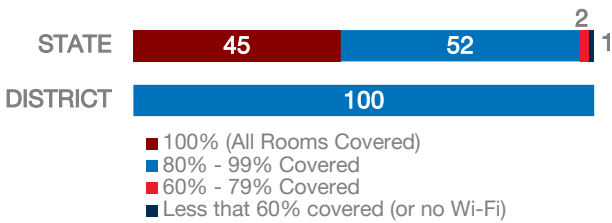
## Salt Lake City School District

### DISTRICT FACTS

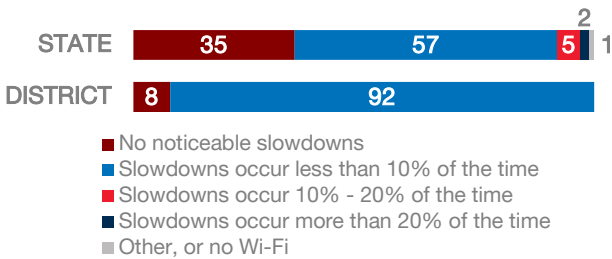
Area Population	195,692
Enrollment	22,548
Number of Schools	37
Urban or Rural	Urban
Median Household Income	\$56,360
Poverty Rate	17.9%

### WI-FI NETWORKS

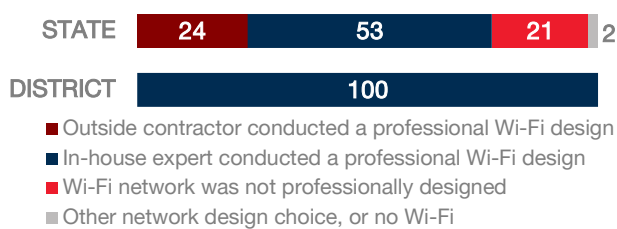
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

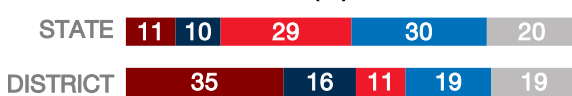


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

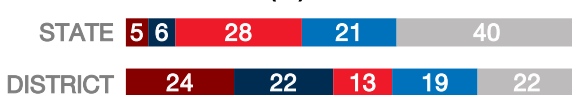


### NETWORK GEAR IN SCHOOLS

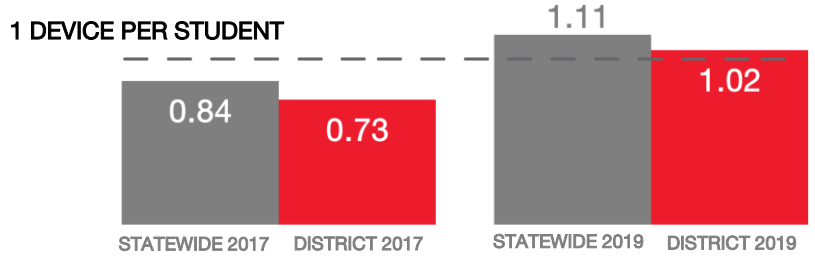
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

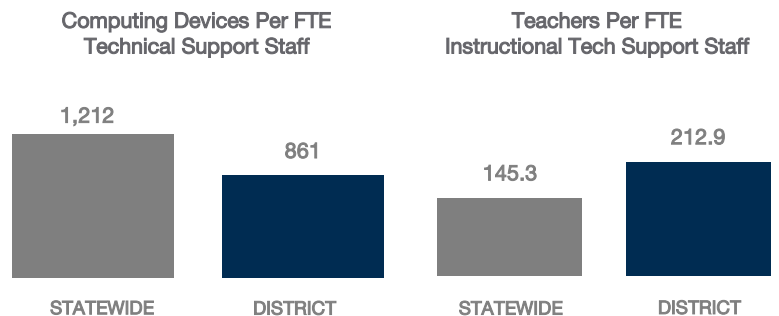
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	5,481	1,994	-1,382	-16%
Laptops   Windows OS	12,884	759	5,856	75%
Desktops   Mac	244	19	111	73%
Laptops   Mac	0	165	29	21%
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	29	60	-5	-5%
Tablets   Android	0	0	0	N/A
Tablets   IOS	4,352	705	737	17%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



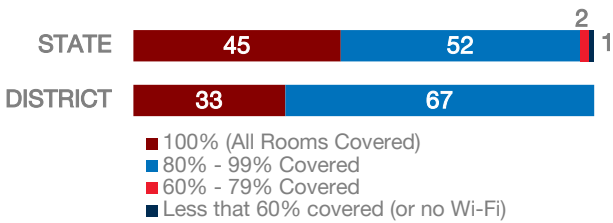
## San Juan School District

### DISTRICT FACTS

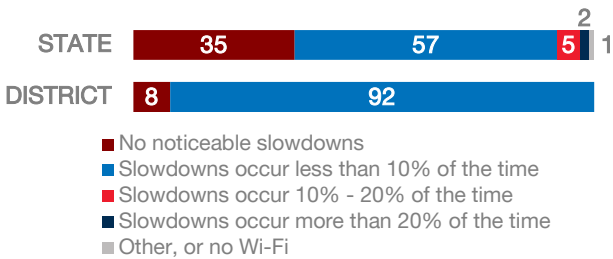
Area Population	14,708
Enrollment	3,127
Number of Schools	12
Urban or Rural	Rural
Median Household Income	\$44,578
Poverty Rate	27.1%

### WI-FI NETWORKS

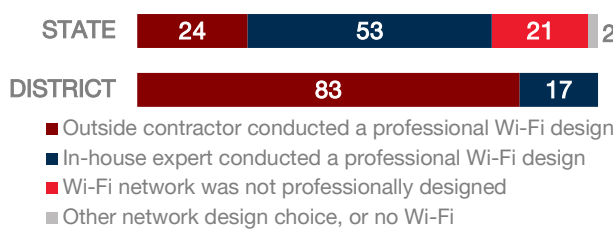
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

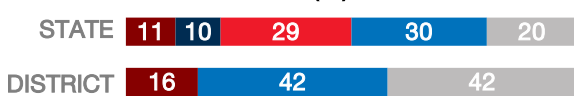


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

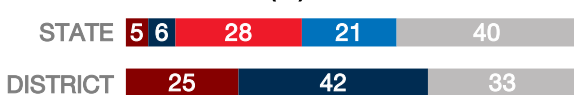


### NETWORK GEAR IN SCHOOLS

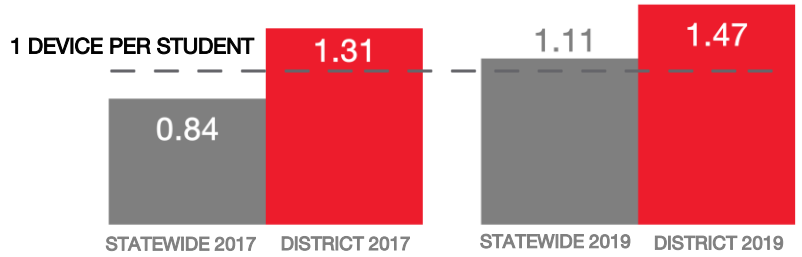
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

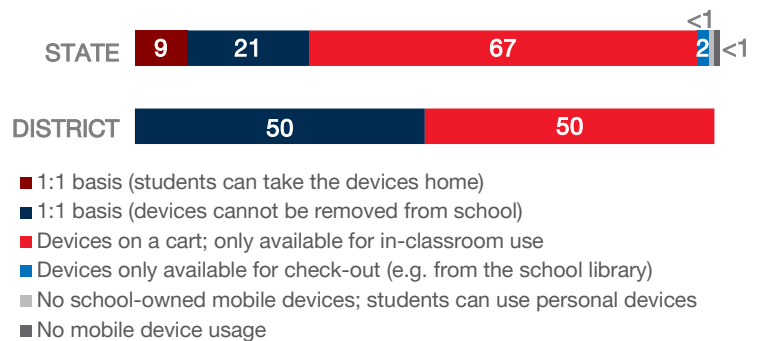


### COMPUTING DEVICES USED IN SCHOOLS

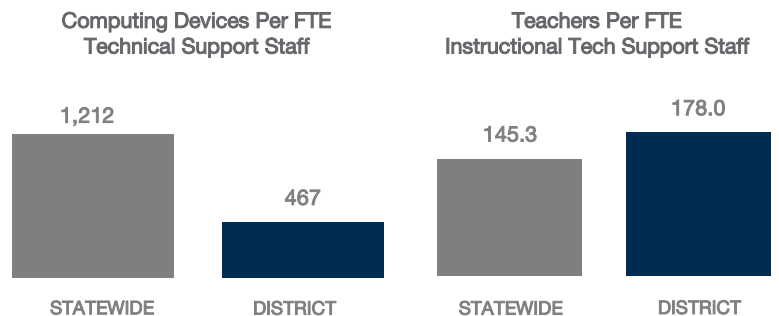
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	1,156	307	-166	-10%
Laptops   Windows OS	0	81	-74	-48%
Desktops   Mac	0	1	1	N/A
Laptops   Mac	0	0	-1	-100%
Chromebooks   Google	3,383	116	940	37%
Tablets   Windows	0	0	-1	-100%
Tablets   Android	0	0	0	N/A
Tablets   IOS	52	43	-76	-44%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





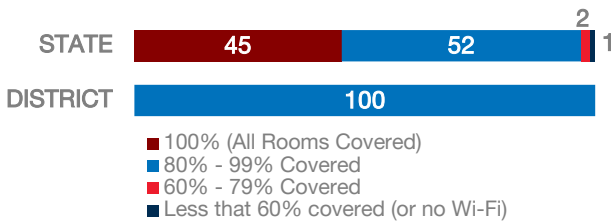
## Sevier School District

### DISTRICT FACTS

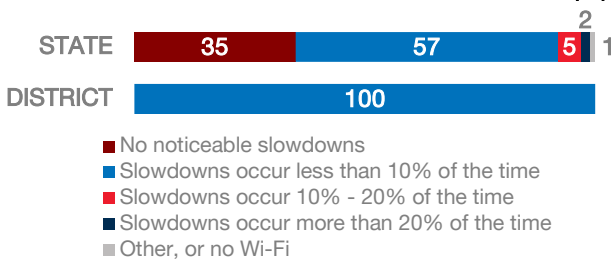
Area Population	21,118
Enrollment	4,648
Number of Schools	12
Urban or Rural	Rural
Median Household Income	\$53,020
Poverty Rate	13.4%

### WI-FI NETWORKS

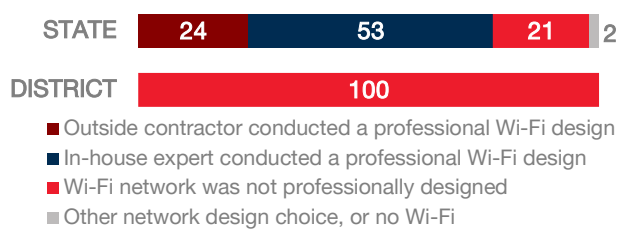
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

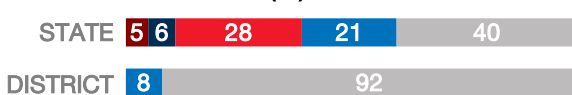


### NETWORK GEAR IN SCHOOLS

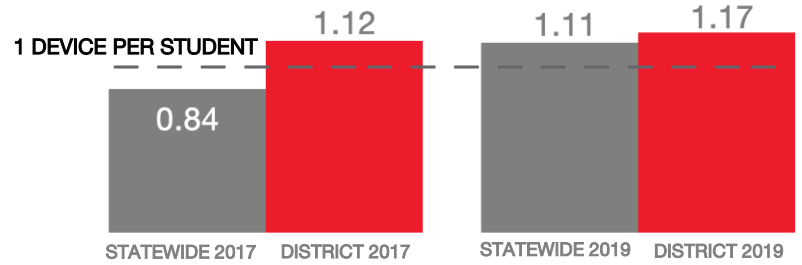
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

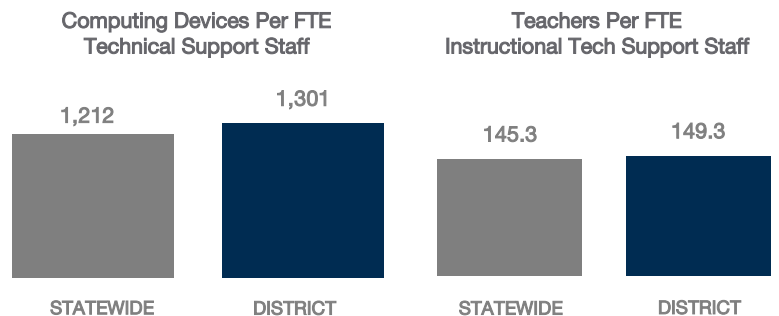
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	180	22	0	0%
Laptops   Windows OS	0	5	0	0%
Desktops   Mac	843	222	-282	-21%
Laptops   Mac	76	51	0	0%
Chromebooks   Google	3,463	10	501	17%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	858	123	-239	-20%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



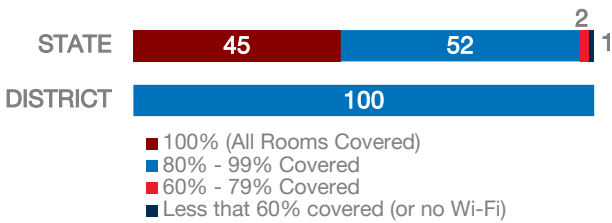
## South Sanpete School District

### DISTRICT FACTS

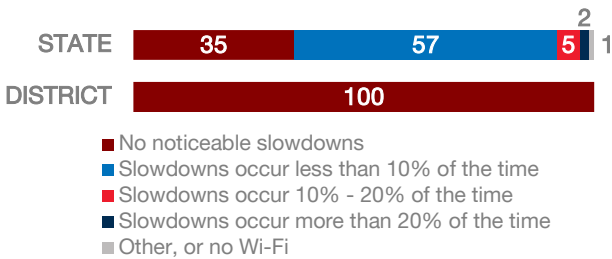
Area Population	17,658
Enrollment	3,477
Number of Schools	7
Urban or Rural	Rural
Median Household Income	\$47,114
Poverty Rate	18.1%

### WI-FI NETWORKS

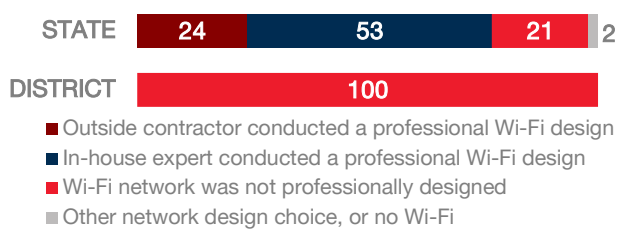
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

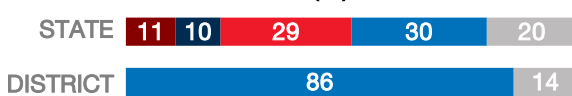


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

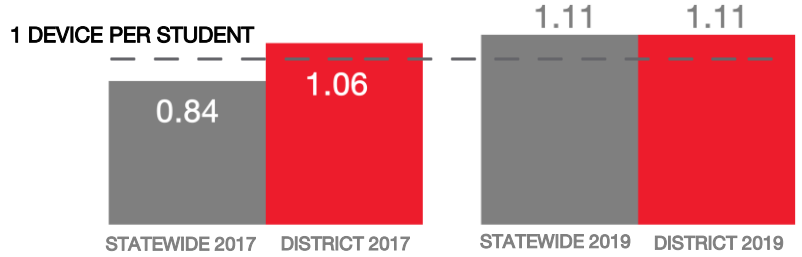


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr. Old ■ 1 Year Old ■ 2 Years Old  
 ■ 3 Years Old ■ 4+ Years Old ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

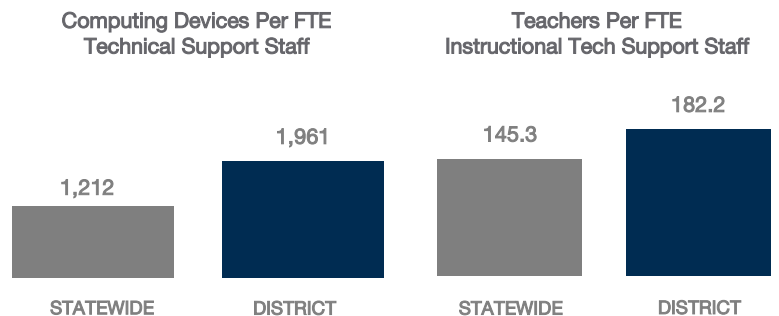
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	25	2	-6	-18%
Laptops   Windows OS	0	0	0	N/A
Desktops   Mac	486	244	-71	-9%
Laptops   Mac	130	45	25	17%
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	3,227	254	346	11%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



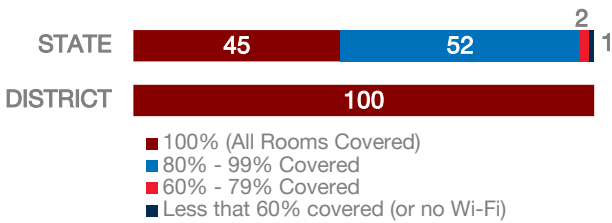
## South Summit School District

### DISTRICT FACTS

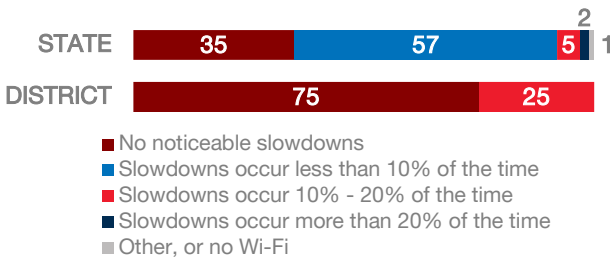
Area Population	7,696
Enrollment	1,766
Number of Schools	4
Urban or Rural	Rural
Median Household Income	\$76,274
Poverty Rate	6.4%

### WI-FI NETWORKS

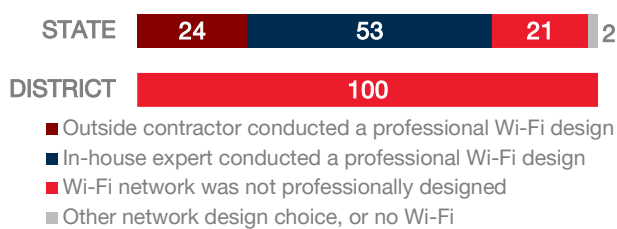
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

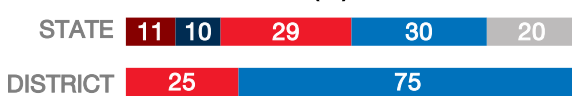


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

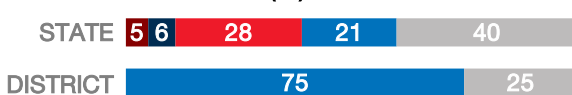


### NETWORK GEAR IN SCHOOLS

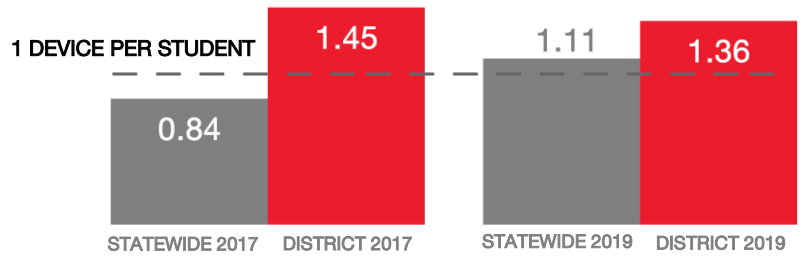
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

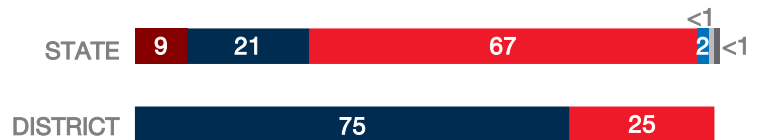


### COMPUTING DEVICES USED IN SCHOOLS

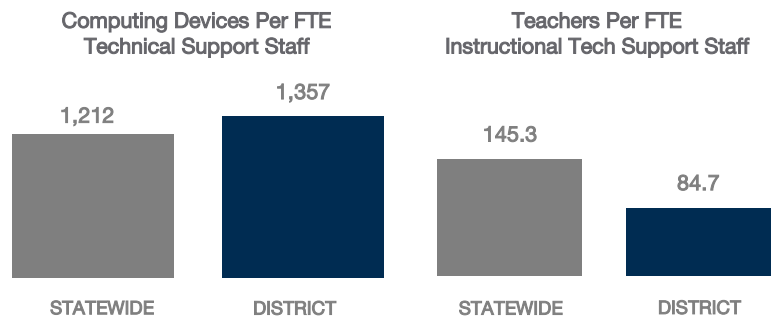
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	35	3	0	0%
Laptops   Windows OS	120	4	91	276%
Desktops   Mac	68	128	-152	-44%
Laptops   Mac	1,740	149	4	0%
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	430	36	-118	-20%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



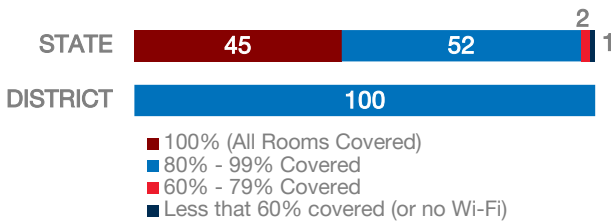
## Tintic School District

### DISTRICT FACTS

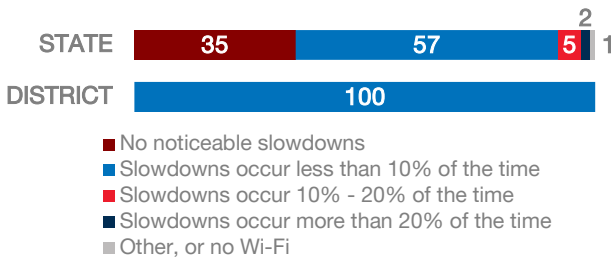
Area Population	765
Enrollment	213
Number of Schools	4
Urban or Rural	Rural
Median Household Income	\$53,906
Poverty Rate	14.2%

### WI-FI NETWORKS

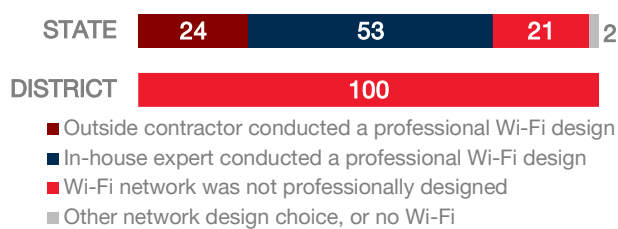
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

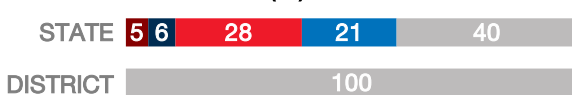


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

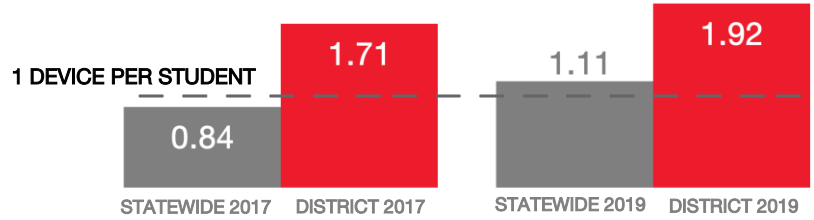


#### AGE OF WIRED GEAR (%)



- Less Than 1 Yr.Old
- 1 Year Old
- 2 Years Old
- 3 Years Old
- 4+ Years Old
- Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

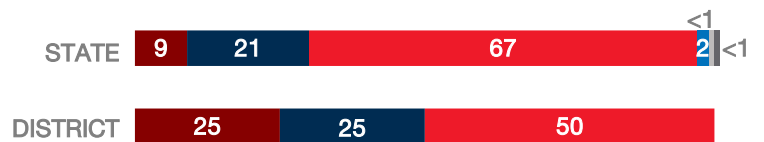


### COMPUTING DEVICES USED IN SCHOOLS

	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	50	26	0	0%
Laptops   Windows OS	24	15	0	0%
Desktops   Mac	6	5	0	0%
Laptops   Mac	0	5	0	0%
Chromebooks   Google	309	5	0	0%
Tablets   Windows	0	4	0	0%
Tablets   Android	0	0	0	N/A
Tablets   IOS	20	8	0	0%

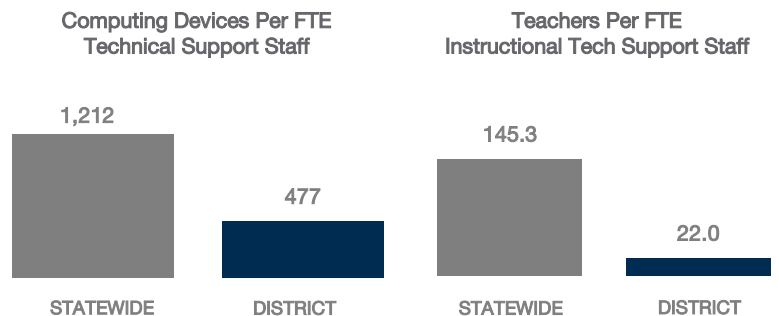
### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



- 1:1 basis (students can take the devices home)
- 1:1 basis (devices cannot be removed from school)
- Devices on a cart; only available for in-classroom use
- Devices only available for check-out (e.g. from the school library)
- No school-owned mobile devices; students can use personal devices
- No mobile device usage

### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



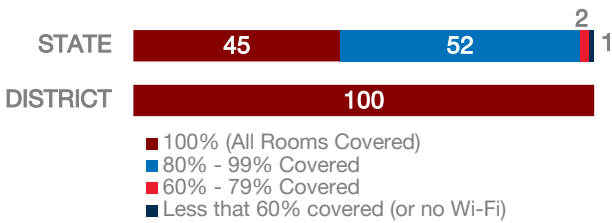
## Tooele County School District

### DISTRICT FACTS

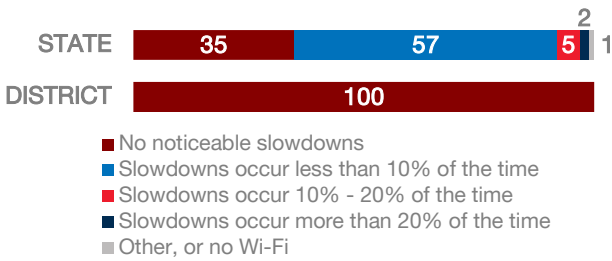
Area Population	65,185
Enrollment	17,619
Number of Schools	24
Urban or Rural	Urban
Median Household Income	\$71,020
Poverty Rate	6.7%

### WI-FI NETWORKS

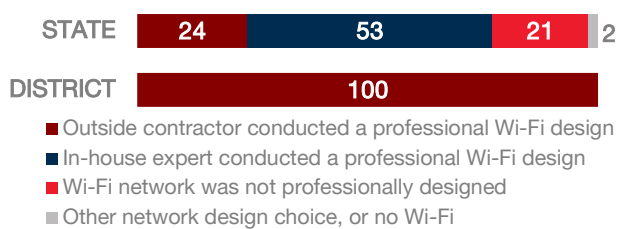
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

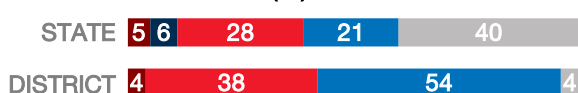


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

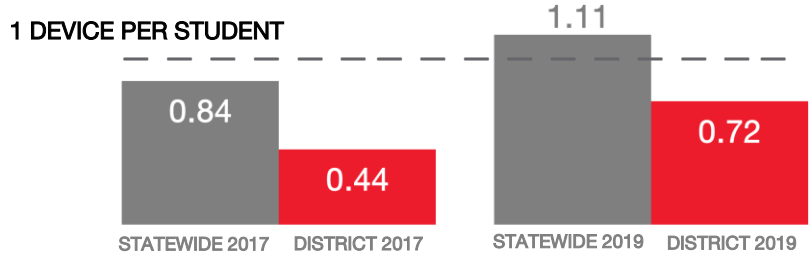


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr.Old   ■ 1 Year Old   ■ 2 Years Old  
■ 3 Years Old   ■ 4+ Years Old   ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

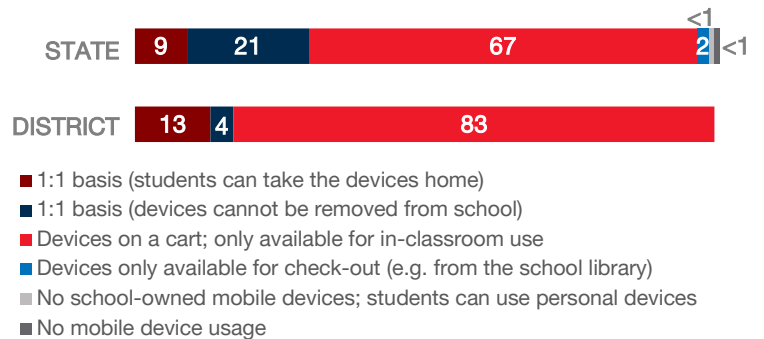


### COMPUTING DEVICES USED IN SCHOOLS

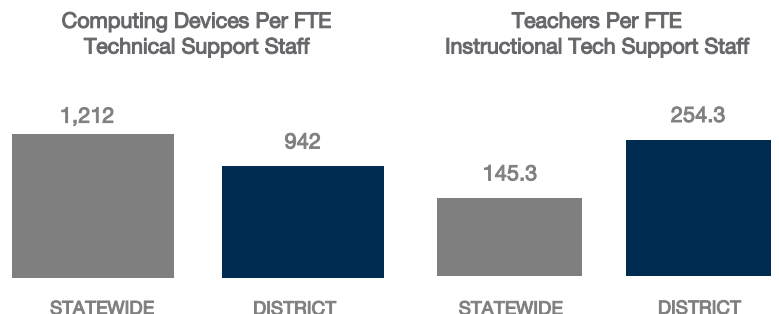
	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	3,184	1,137	262	6%
Laptops   Windows OS	3,786	115	751	24%
Desktops   Mac	128	16	-25	-15%
Laptops   Mac	171	26	87	79%
Chromebooks   Google	3,547	46	3,476	2971%
Tablets   Windows	0	0	-3	-100%
Tablets   Android	246	0	240	4000%
Tablets   IOS	1,519	214	611	54%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





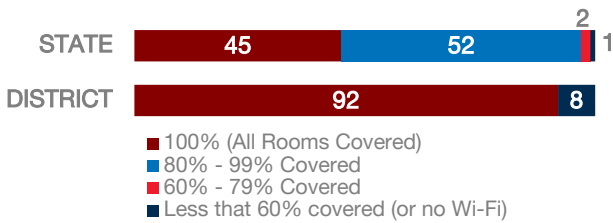
## Uintah School District

### DISTRICT FACTS

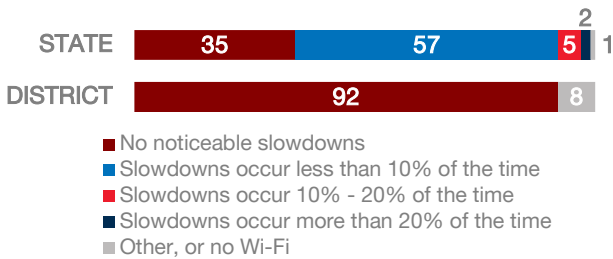
Area Population	36,323
Enrollment	6,976
Number of Schools	12
Urban or Rural	Rural
Median Household Income	\$66,736
Poverty Rate	11.9%

### WI-FI NETWORKS

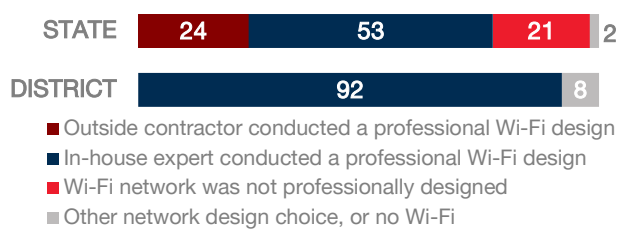
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

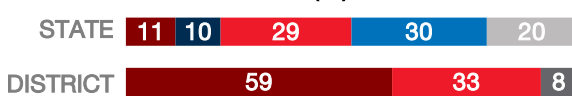


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

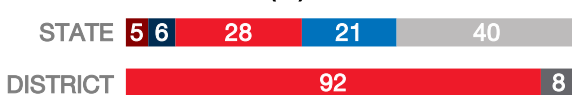


### NETWORK GEAR IN SCHOOLS

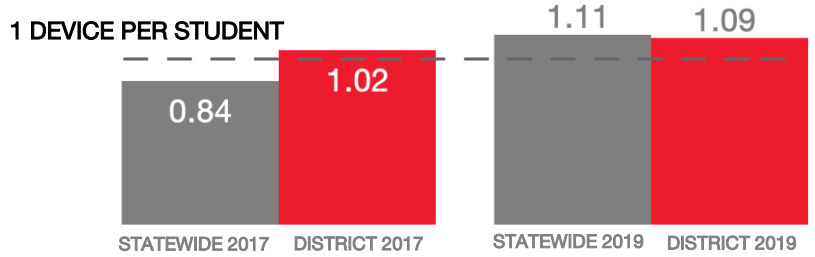
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

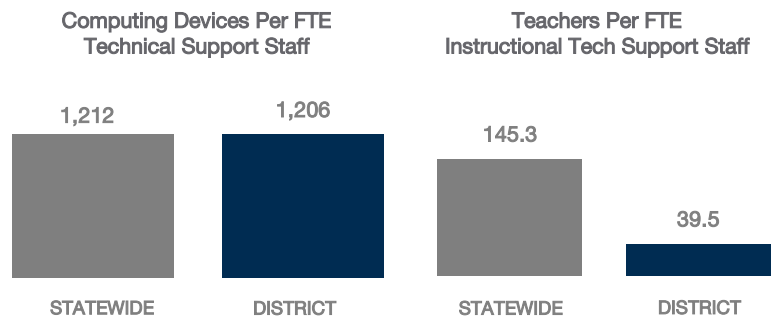
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	1,181	448	-882	-35%
Laptops   Windows OS	150	99	0	0%
Desktops   Mac	90	37	0	0%
Laptops   Mac	0	8	0	0%
Chromebooks   Google	5,911	237	1,056	21%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	257	25	-82	-23%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



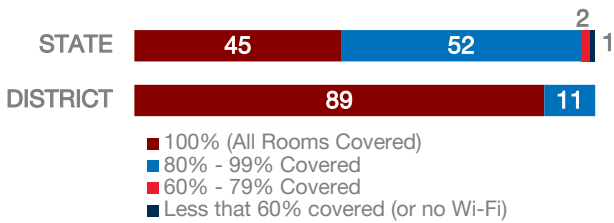
## Wasatch School District

### DISTRICT FACTS

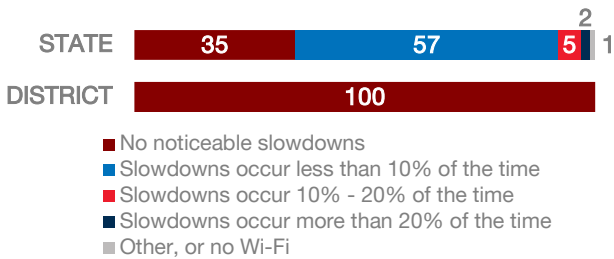
Area Population	30,523
Enrollment	7,368
Number of Schools	9
Urban or Rural	Rural
Median Household Income	\$77,449
Poverty Rate	7.2%

### WI-FI NETWORKS

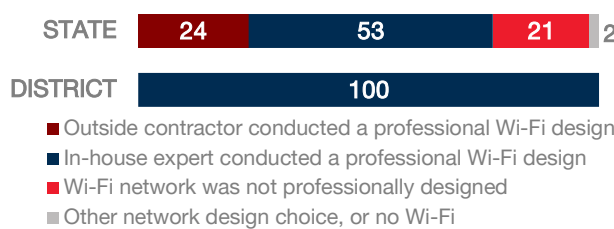
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

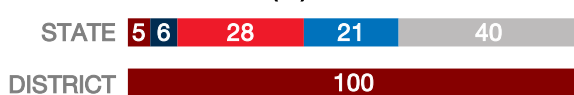


### NETWORK GEAR IN SCHOOLS

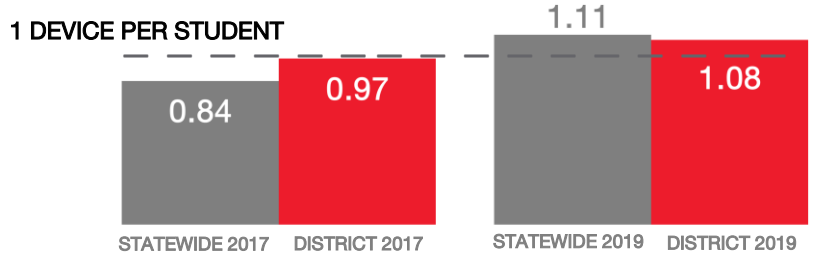
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

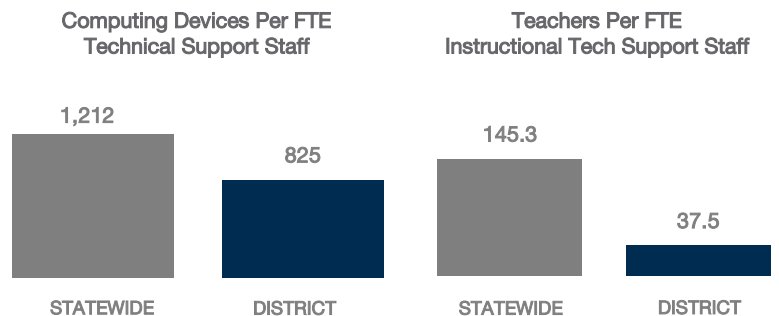
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	40	62	-182	-64%
Laptops   Windows OS	280	124	-6,490	-94%
Desktops   Mac	96	22	2	2%
Laptops   Mac	2,468	587	3,025	10083%
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	5,110	514	5,235	1346%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





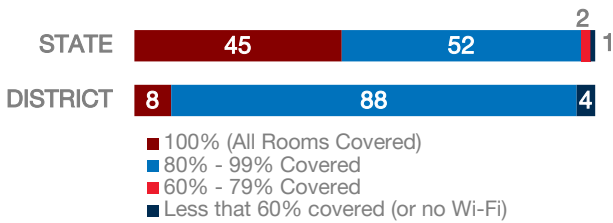
## Washington County School District

### DISTRICT FACTS

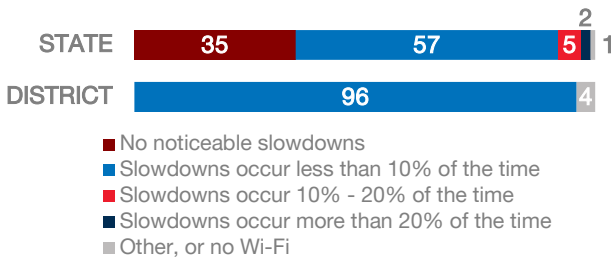
Area Population	160,537
Enrollment	33,396
Number of Schools	50
Urban or Rural	Urban
Median Household Income	\$56,877
Poverty Rate	12.4%

### WI-FI NETWORKS

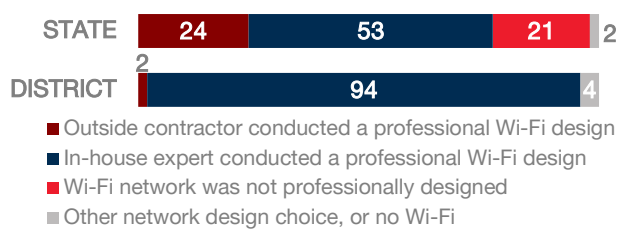
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

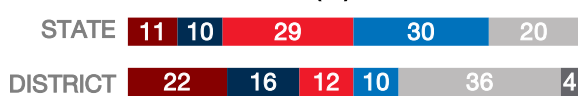


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

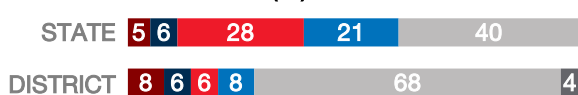


### NETWORK GEAR IN SCHOOLS

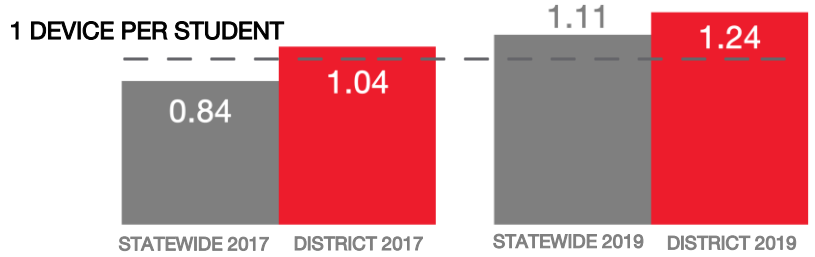
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

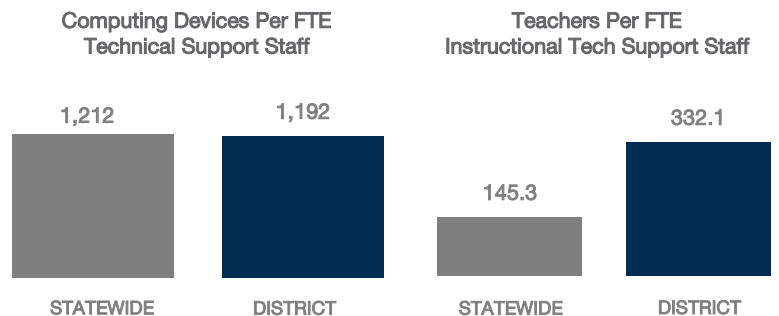
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	4,375	2,017	-634	-9%
Laptops   Windows OS	668	488	-1,021	-47%
Desktops   Mac	319	59	12	3%
Laptops   Mac	8	198	51	33%
Chromebooks   Google	32,684	411	11,402	53%
Tablets   Windows	14	14	-24	-46%
Tablets   Android	288	11	-62	-17%
Tablets   IOS	2,669	580	-812	-20%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



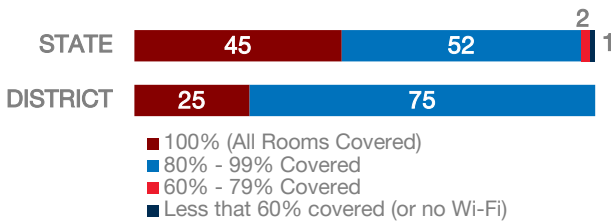
## Wayne County School District

### DISTRICT FACTS

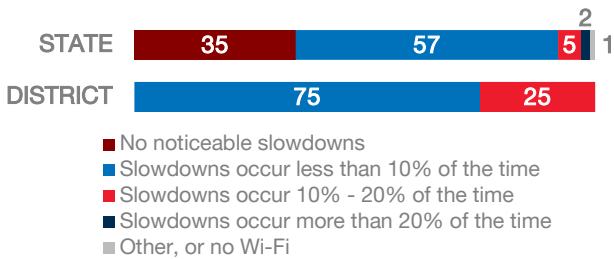
Area Population	2,694
Enrollment	432
Number of Schools	4
Urban or Rural	Rural
Median Household Income	\$44,694
Poverty Rate	8.5%

### WI-FI NETWORKS

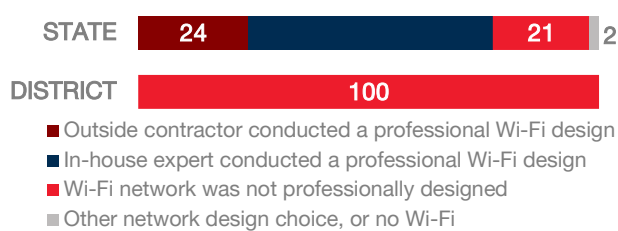
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

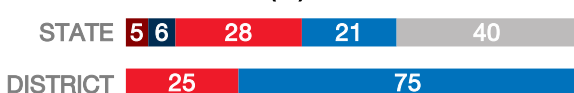


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



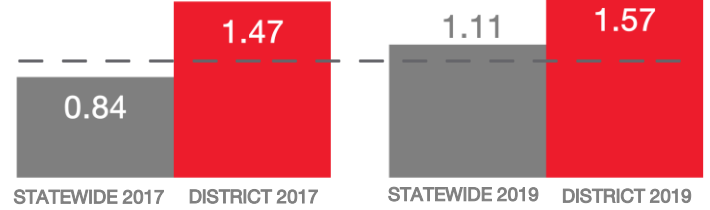
#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr.Old ■ 1 Year Old ■ 2 Years Old  
 ■ 3 Years Old ■ 4+ Years Old ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

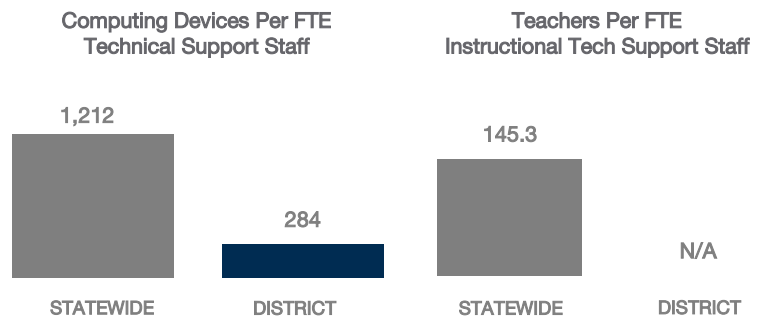
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	20	2	5	29%
Laptops   Windows OS	3	1	0	0%
Desktops   Mac	92	53	-4	-3%
Laptops   Mac	64	17	23	40%
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	499	57	-59	-10%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



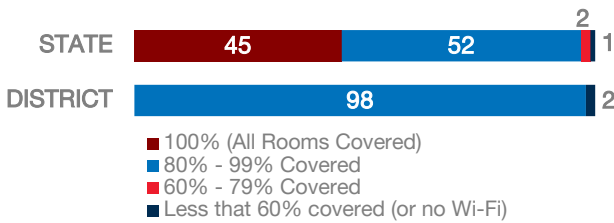
## Weber School District

### DISTRICT FACTS

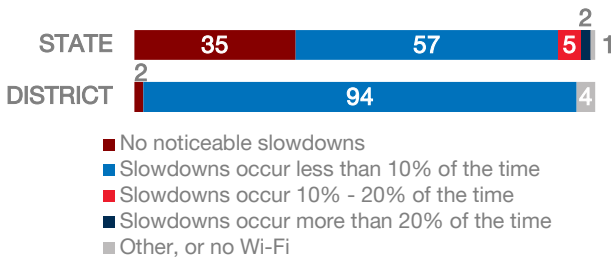
Area Population	161,605
Enrollment	32,683
Number of Schools	46
Urban or Rural	Urban
Median Household Income	\$74,083
Poverty Rate	7.0%

### WI-FI NETWORKS

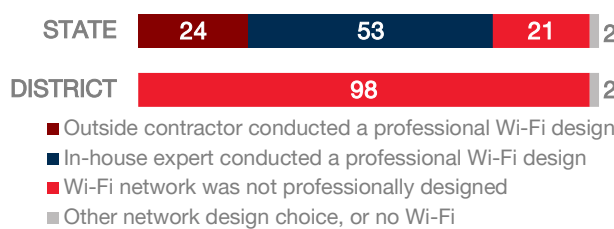
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

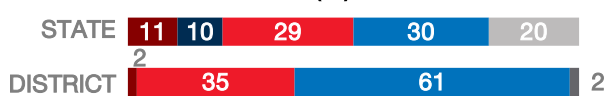


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

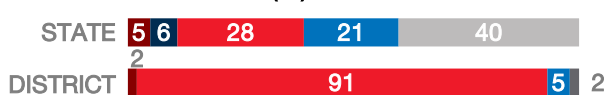


### NETWORK GEAR IN SCHOOLS

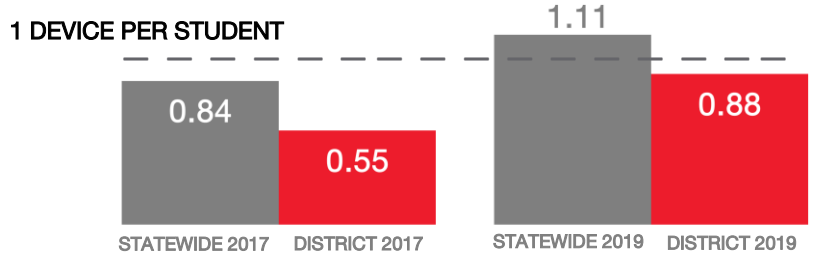
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

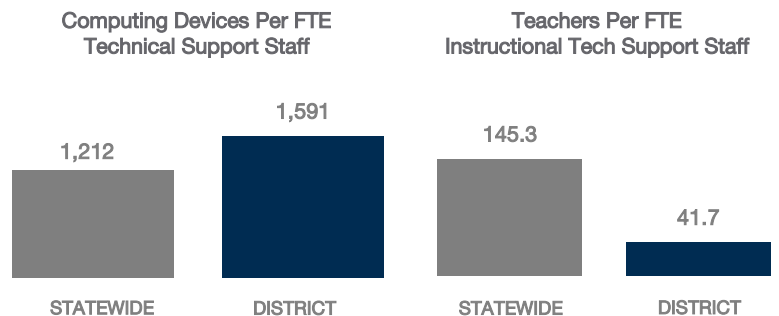
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	3,898	2,433	-198	-3%
Laptops   Windows OS	19	283	-53	-15%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	22,519	1,298	12,698	114%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	2,387	5	-24	-1%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



**Appendix F:**

# Charter School Summary Pages



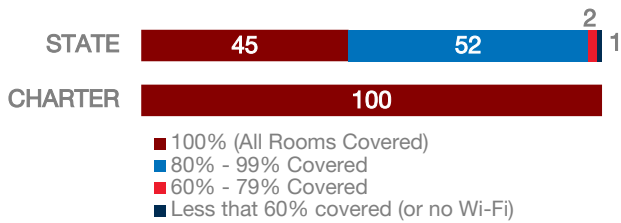
## Academy for Math Engineering & Science (AMES)

### CHARTER FACTS

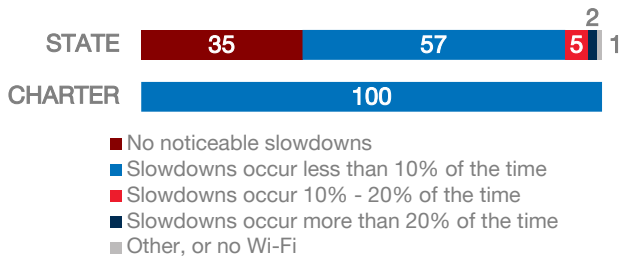
Area Population	N/A
Enrollment	499
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

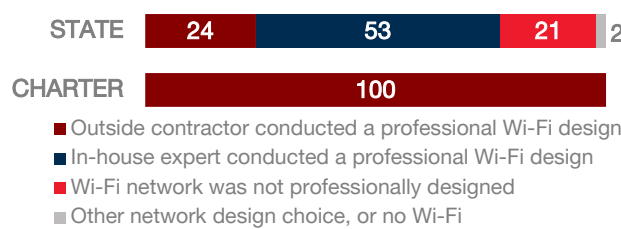
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

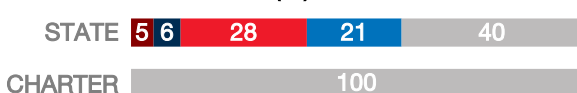


### NETWORK GEAR IN SCHOOLS

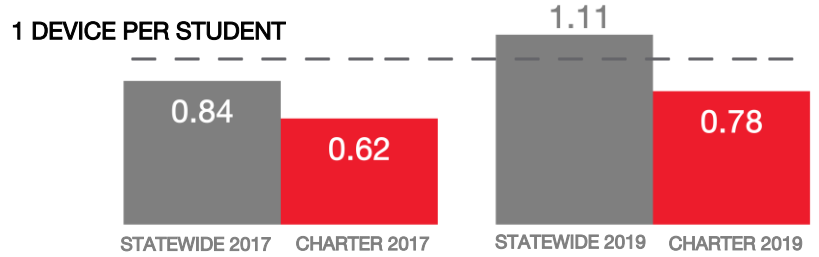
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

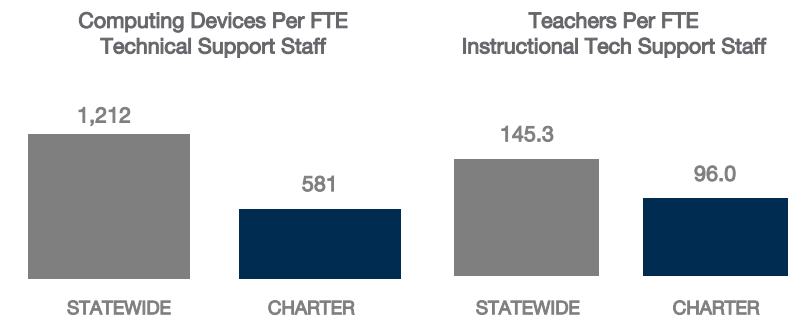
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	101	5	-1	-1%
Laptops   Windows OS	175	31	25	14%
Desktops   Mac	12	1	4	44%
Laptops   Mac	0	1	0	0%
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	100	10	46	72%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





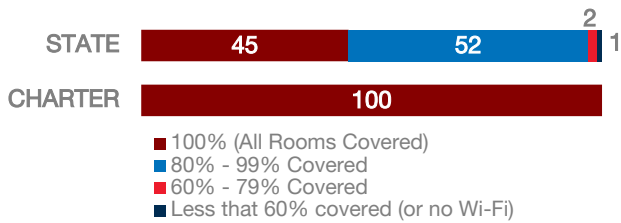
## American Academy of Innovation (6-12)

### CHARTER FACTS

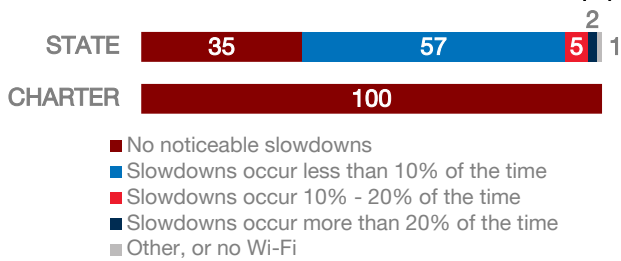
Area Population	N/A
Enrollment	403
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

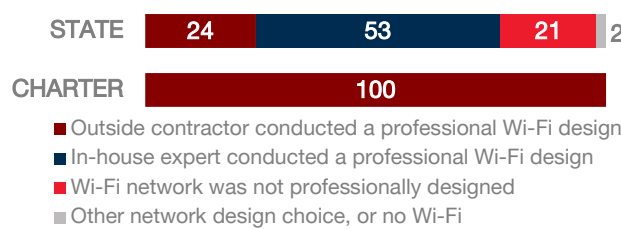
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

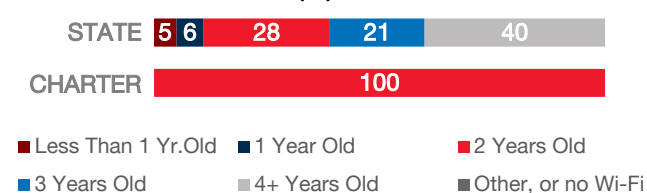


### NETWORK GEAR IN SCHOOLS

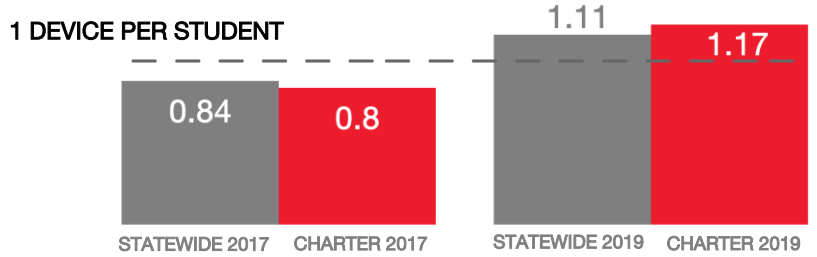
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

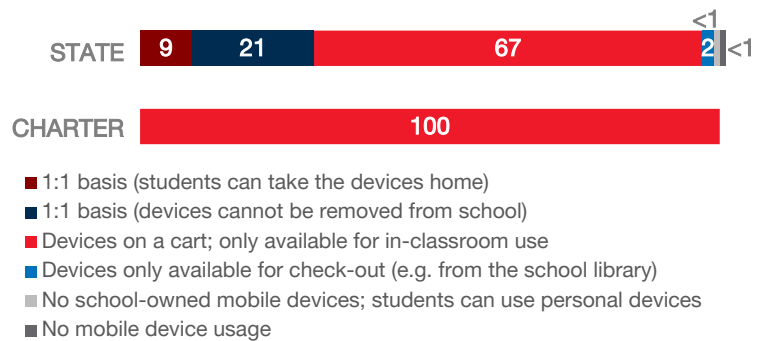


### COMPUTING DEVICES USED IN SCHOOLS

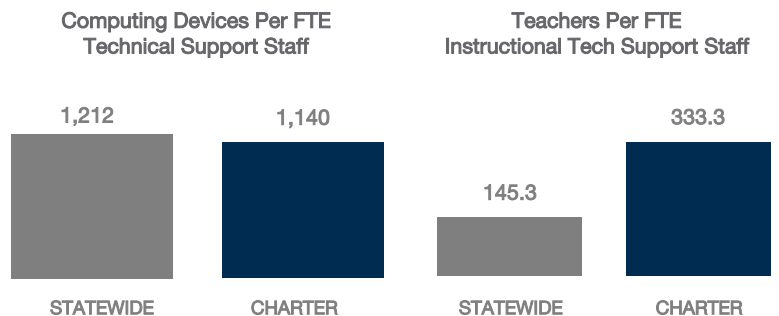
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	6	3	-1	-10%
Laptops   Windows OS	30	5	0	0%
Desktops   Mac	32	2	-1	-3%
Laptops   Mac	105	30	-5	-4%
Chromebooks   Google	90	0	-90	-50%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	210	0	30	17%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



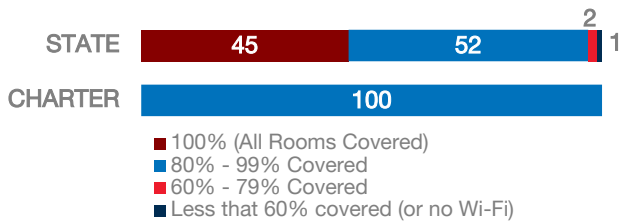
## American Leadership Academy

### CHARTER FACTS

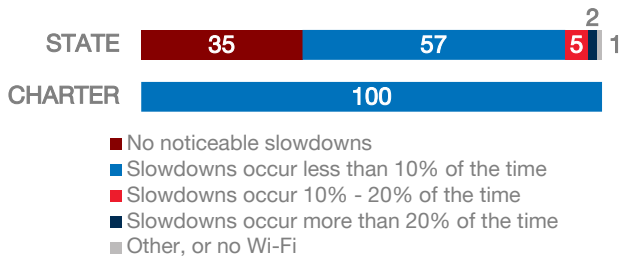
Area Population	N/A
Enrollment	1,772
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

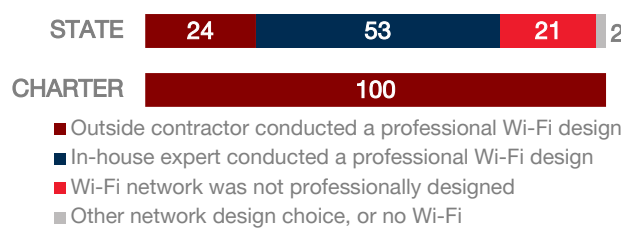
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

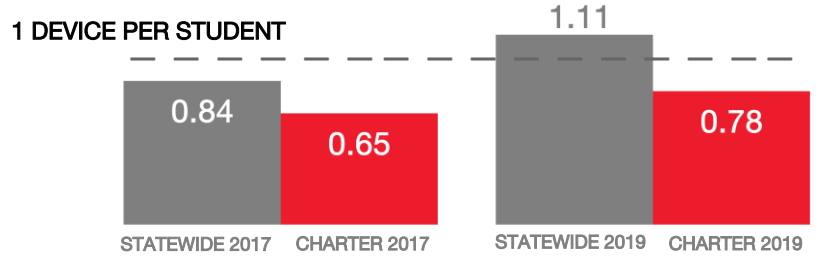
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

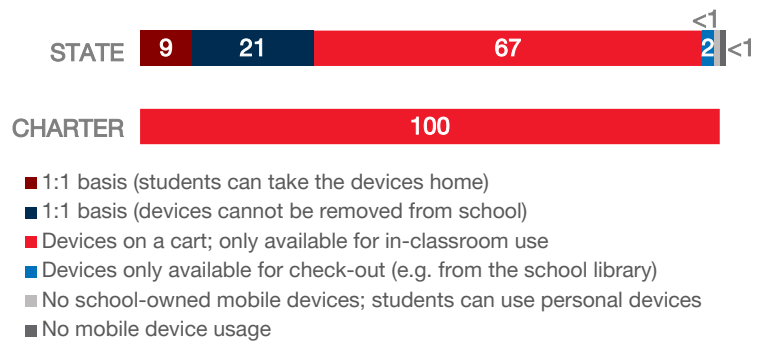


### COMPUTING DEVICES USED IN SCHOOLS

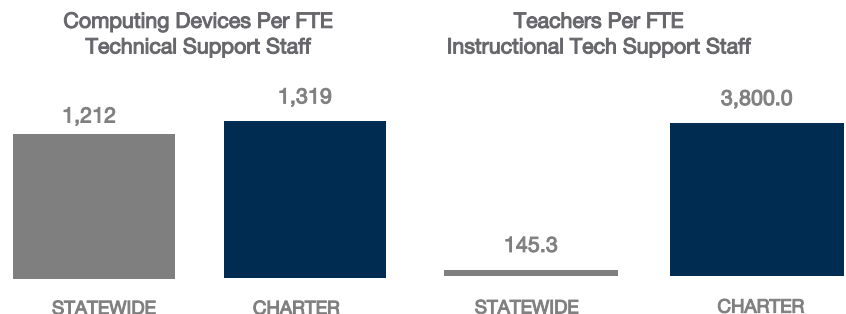
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	84	45	0	0%
Laptops   Windows OS	650	130	315	68%
Desktops   Mac	52	4	-1	-2%
Laptops   Mac	0	10	0	0%
Chromebooks   Google	360	2	-62	-15%
Tablets   Windows	0	0	-38	-100%
Tablets   Android	0	0	0	N/A
Tablets   IOS	210	6	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





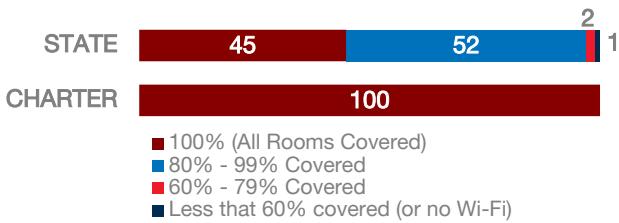
## American Preparatory Academy

### CHARTER FACTS

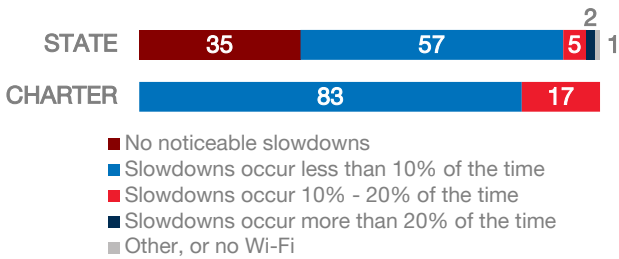
Area Population	N/A
Enrollment	4,802
Number of Schools	6
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

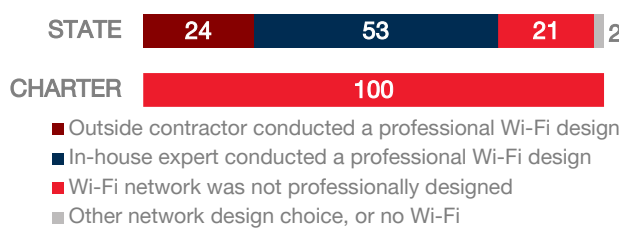
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

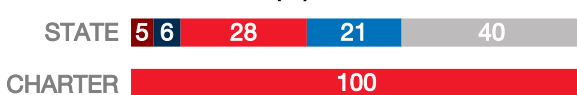


### NETWORK GEAR IN SCHOOLS

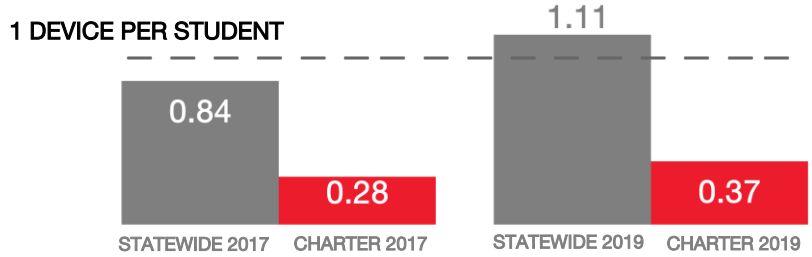
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

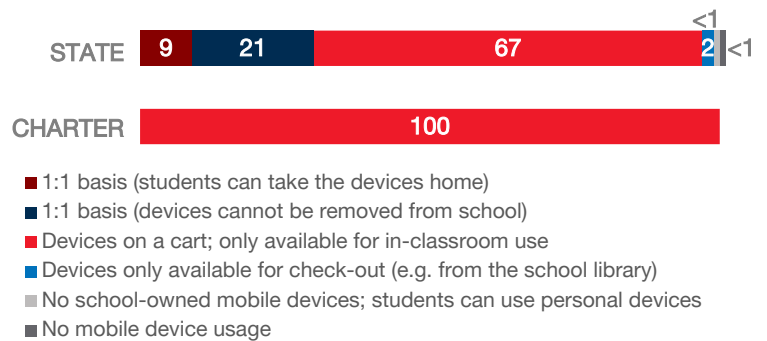


### COMPUTING DEVICES USED IN SCHOOLS

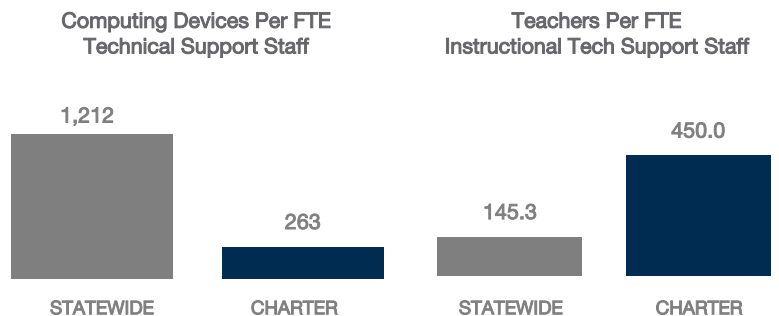
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	33	0	3	10%
Laptops   Windows OS	0	1	0	0%
Desktops   Mac	0	22	8	57%
Laptops   Mac	1,680	404	569	38%
Chromebooks   Google	5	0	-111	-96%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	75	15	25	38%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



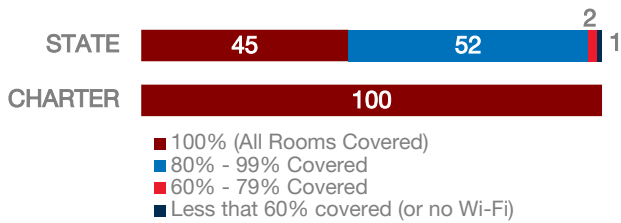
## Ascent Academies of Utah

### CHARTER FACTS

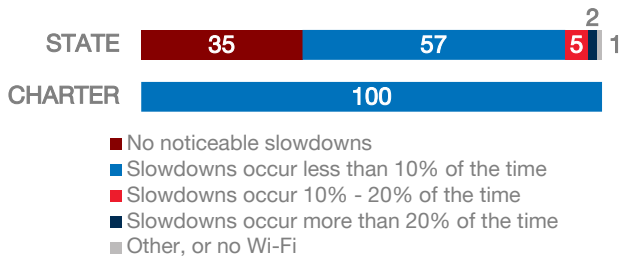
Area Population	N/A
Enrollment	2,349
Number of Schools	4
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

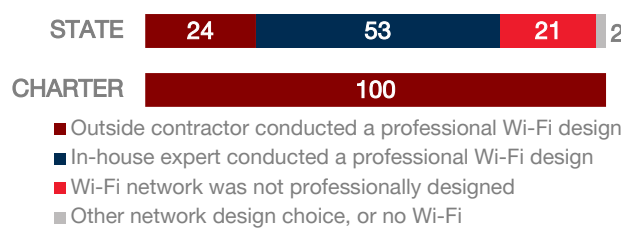
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

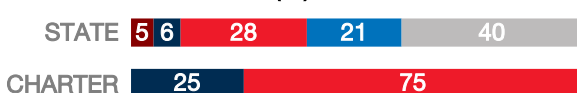


### NETWORK GEAR IN SCHOOLS

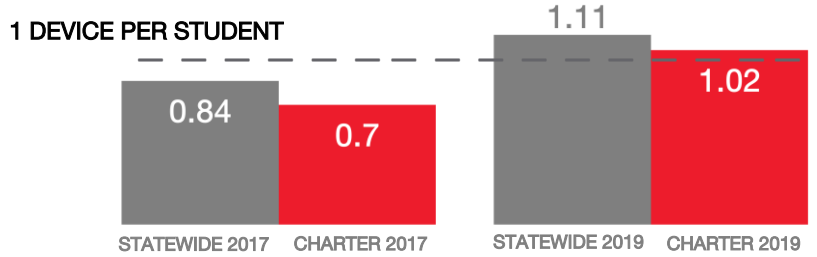
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

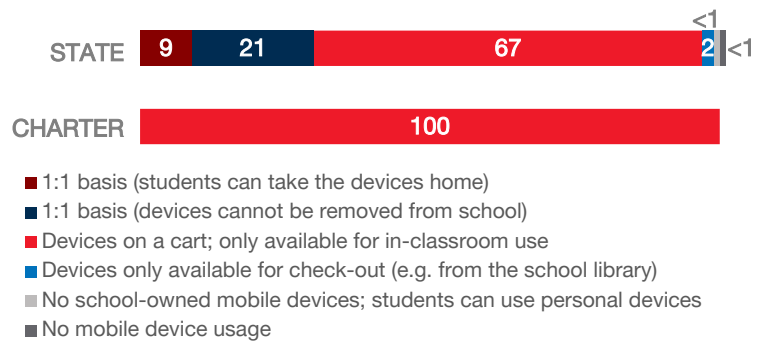


### COMPUTING DEVICES USED IN SCHOOLS

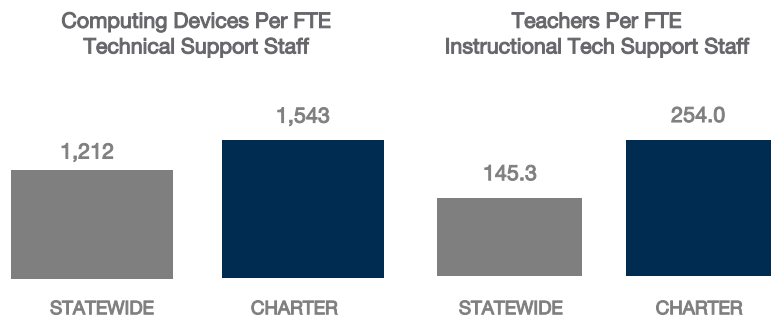
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	0	N/A
Laptops   Windows OS	36	2	-55	-59%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	140	156	80	37%
Chromebooks   Google	1,685	15	815	92%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	539	127	228	52%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



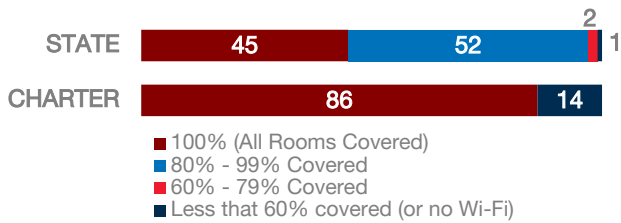
## Athenian eAcademy

### CHARTER FACTS

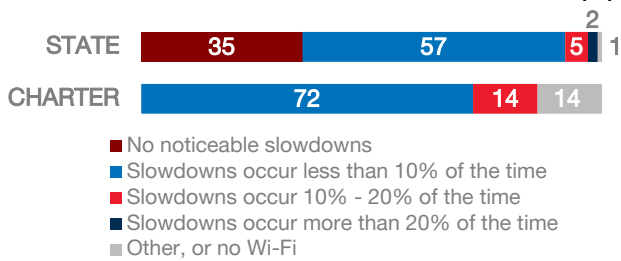
Area Population	N/A
Enrollment	673
Number of Schools	7
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

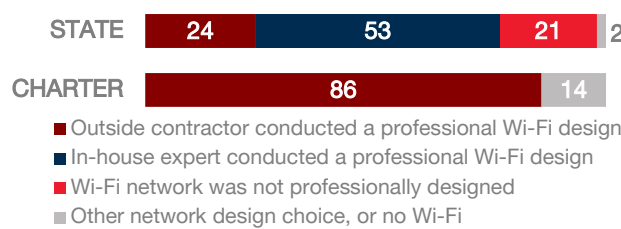
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

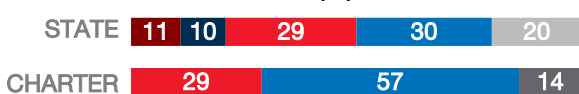


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

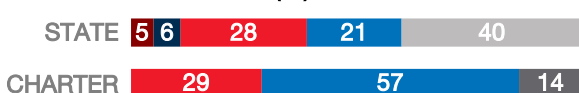


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

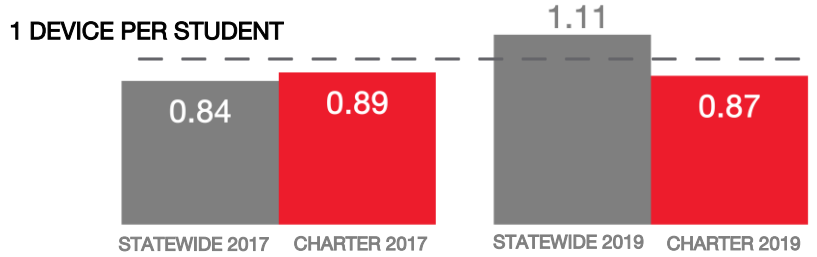


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr. Old ■ 1 Year Old ■ 2 Years Old  
 ■ 3 Years Old ■ 4+ Years Old ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

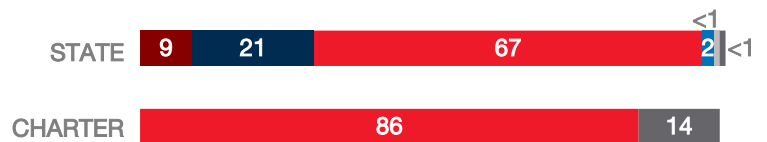


### COMPUTING DEVICES USED IN SCHOOLS

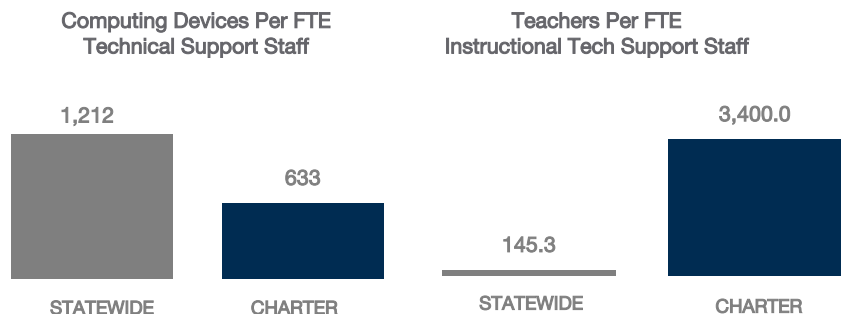
Device Type	Student Use	Teacher/Admin Use	Change in # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	8	4	100%
Laptops   Windows OS	0	37	6	19%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	588	0	256	77%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



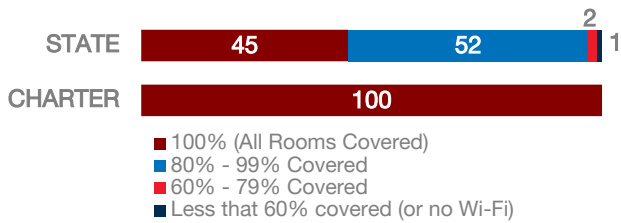
## Athlos Academy of Utah

### CHARTER FACTS

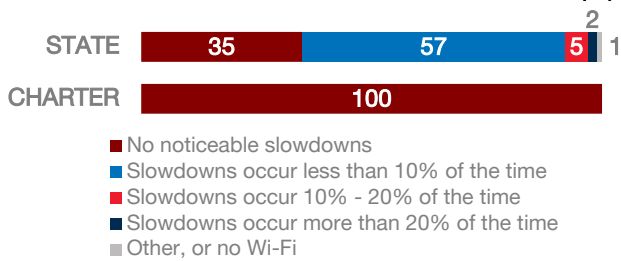
Area Population	N/A
Enrollment	840
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

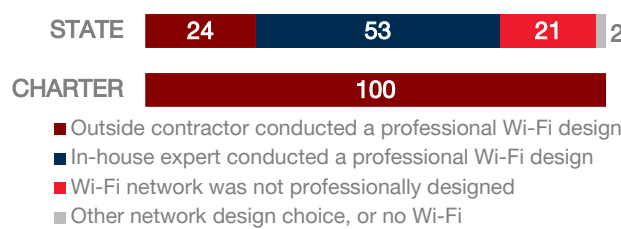
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

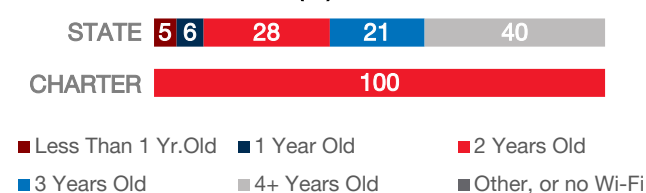


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

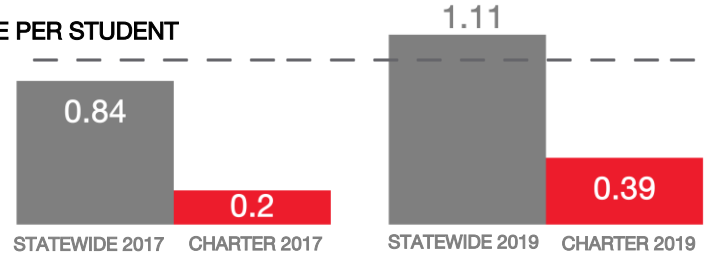


#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT

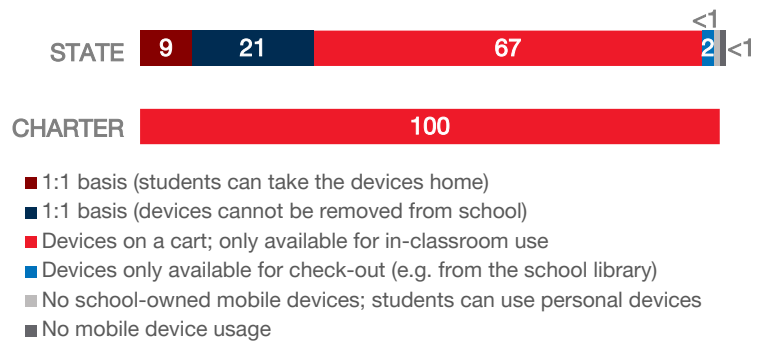


### COMPUTING DEVICES USED IN SCHOOLS

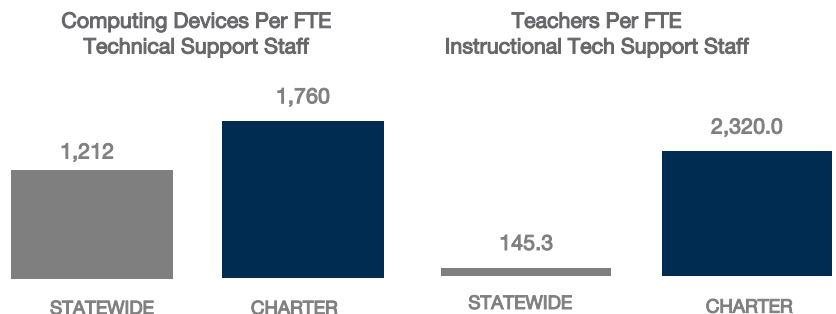
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	90	2	30	48%
Laptops   Windows OS	40	60	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	60	0	50	500%
Tablets   Windows	0	0	0	N/A
Tablets   Android	15	0	0	0%
Tablets   IOS	122	7	83	180%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



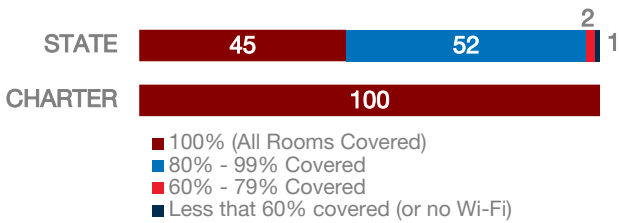
## Bear River Charter School

### CHARTER FACTS

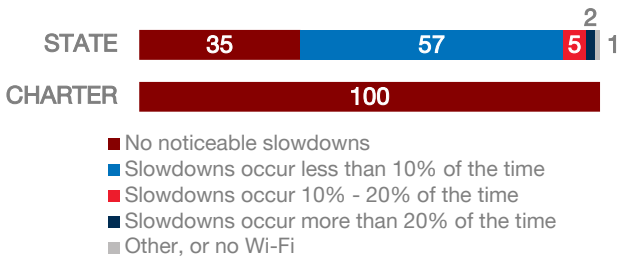
Area Population	N/A
Enrollment	176
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

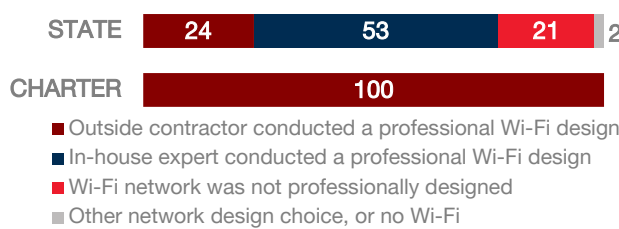
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

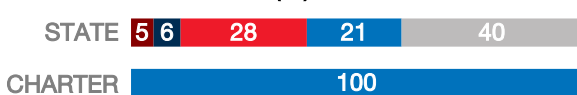


### NETWORK GEAR IN SCHOOLS

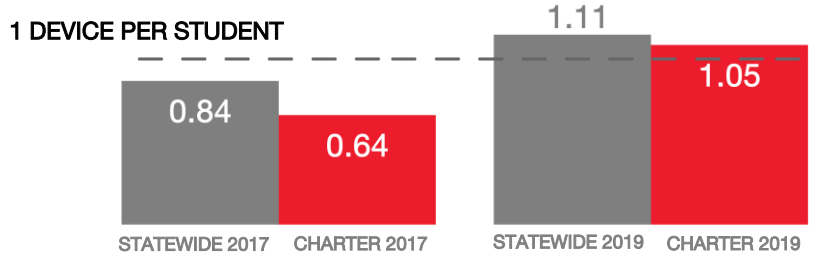
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

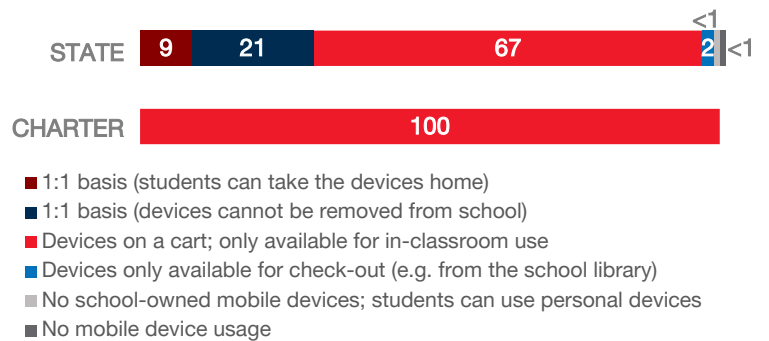


### COMPUTING DEVICES USED IN SCHOOLS

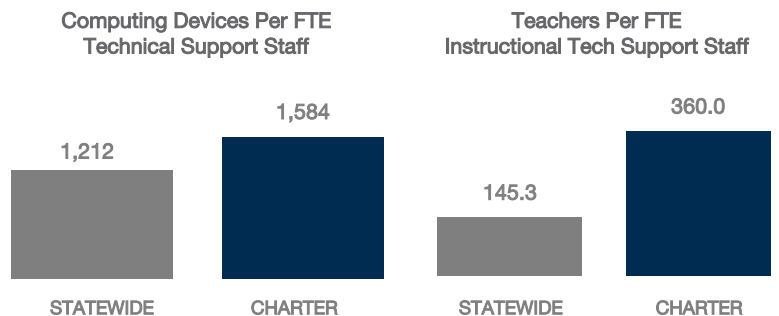
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	10	4	-13	-48%
Laptops   Windows OS	0	9	-30	-77%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	150	0	120	400%
Tablets   Windows	0	0	0	N/A
Tablets   Android	5	0	0	0%
Tablets   IOS	20	0	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



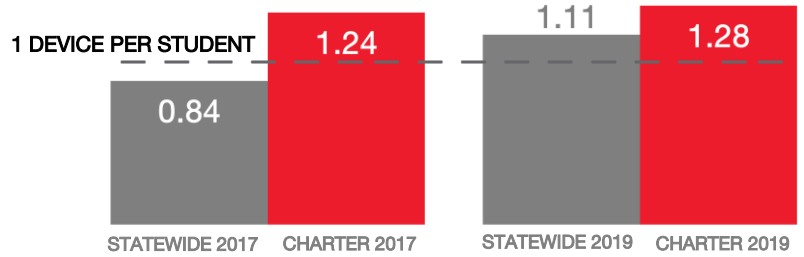


## Beehive Science & Technology Academy (BSTA)

### CHARTER FACTS

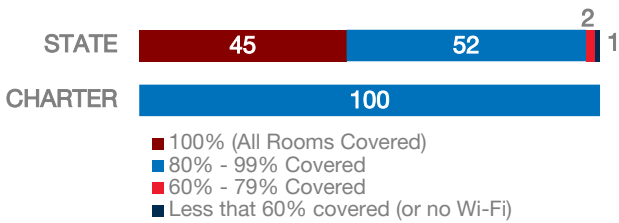
Area Population	N/A
Enrollment	320
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### COMPUTING DEVICES PER STUDENT

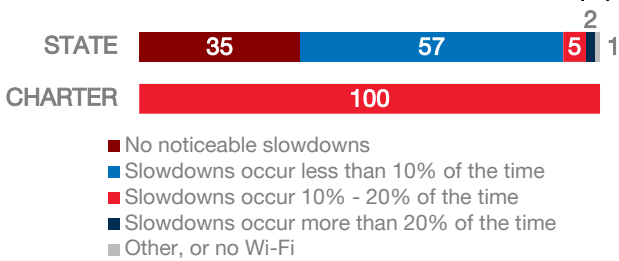


### WI-FI NETWORKS

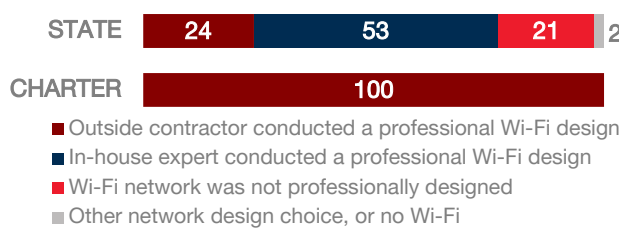
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

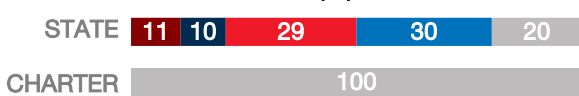


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

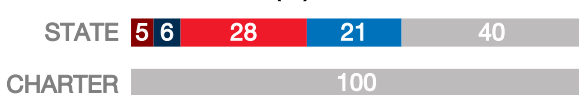


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)

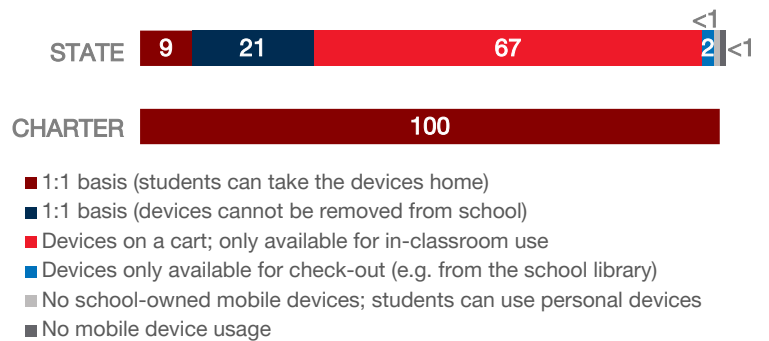


### COMPUTING DEVICES USED IN SCHOOLS

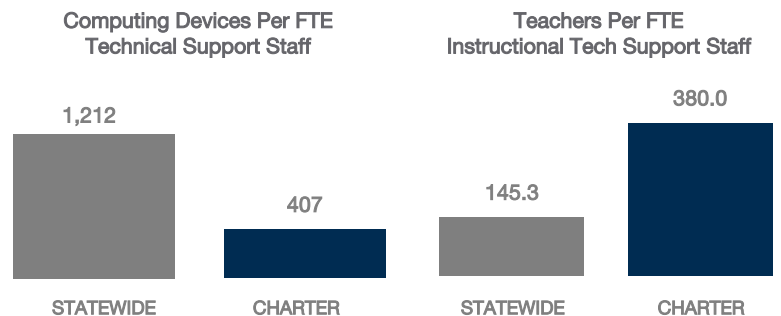
Device Type	Student Use	Teacher/Admin Use	Change in # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	25	0	-24	-49%
Laptops   Windows OS	0	0	0	N/A
Desktops   Mac	54	1	27	96%
Laptops   Mac	10	24	10	42%
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	320	24	9	3%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





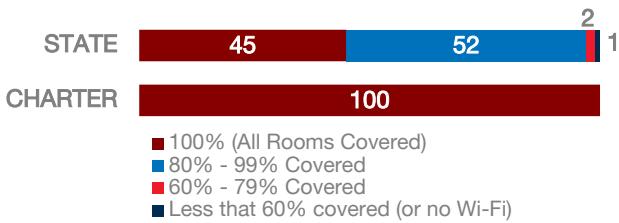
## Bonneville Academy

### CHARTER FACTS

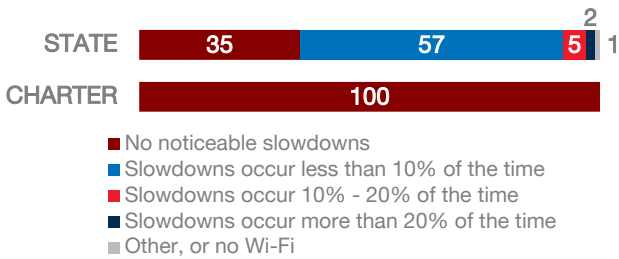
Area Population	N/A
Enrollment	556
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

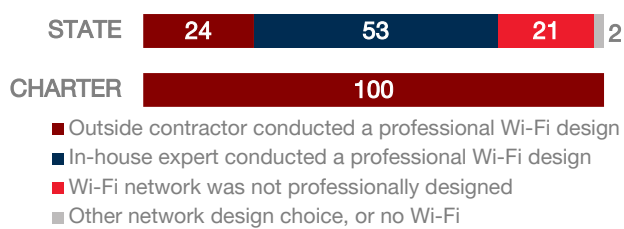
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

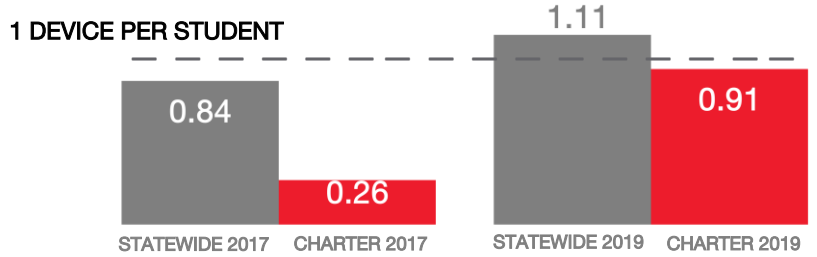
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

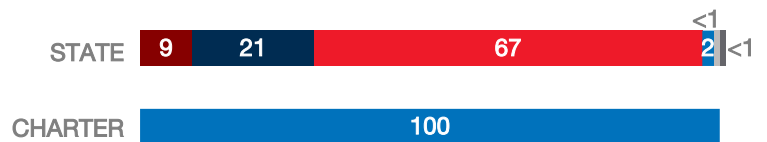


### COMPUTING DEVICES USED IN SCHOOLS

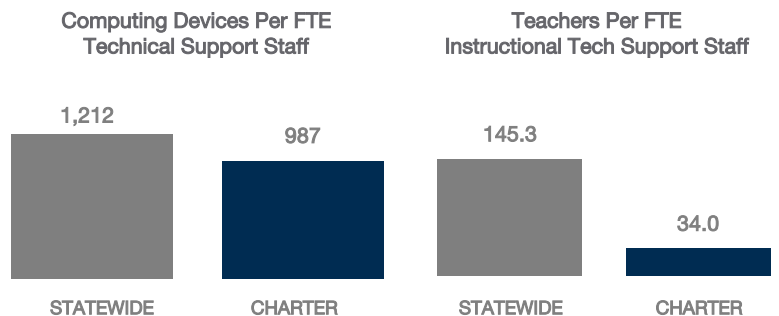
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	58	5	3	5%
Laptops   Windows OS	26	60	26	43%
Desktops   Mac	0	1	1	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	356	356	622	691%
Tablets   Windows	0	0	0	N/A
Tablets   Android	5	0	5	N/A
Tablets   IOS	60	60	85	243%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



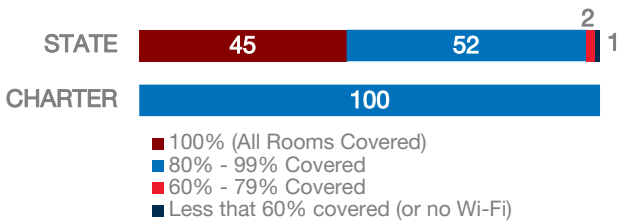
## C. S. Lewis Academy

### CHARTER FACTS

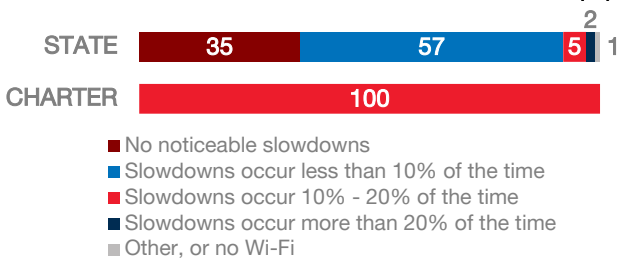
Area Population	N/A
Enrollment	321
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

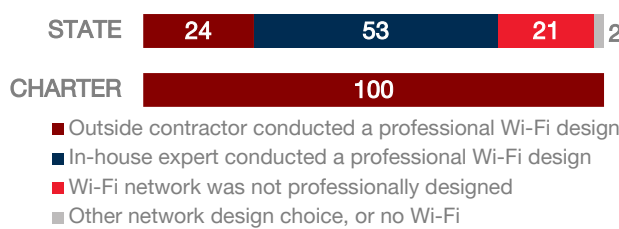
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

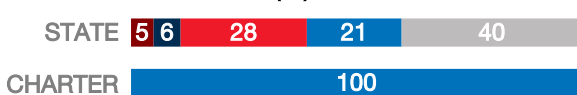


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

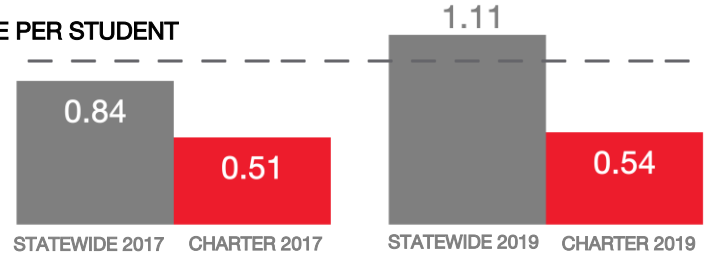


#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

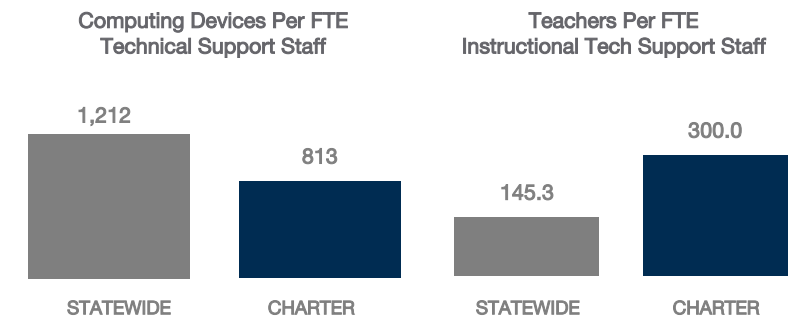
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	15	-11	-42%
Laptops   Windows OS	0	50	36	257%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	139	0	-1	-1%
Tablets   Windows	0	0	0	N/A
Tablets   Android	30	0	15	100%
Tablets   IOS	5	5	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



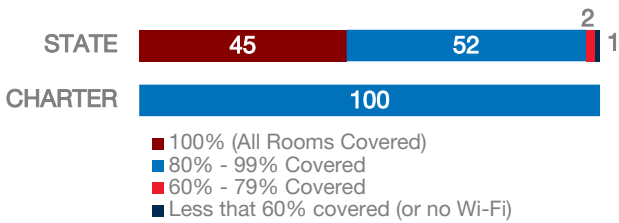
## Canyon Grove Academy

### CHARTER FACTS

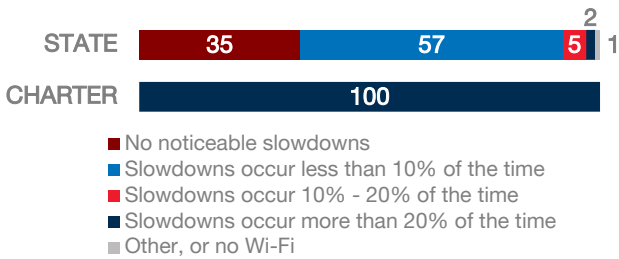
Area Population	N/A
Enrollment	640
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

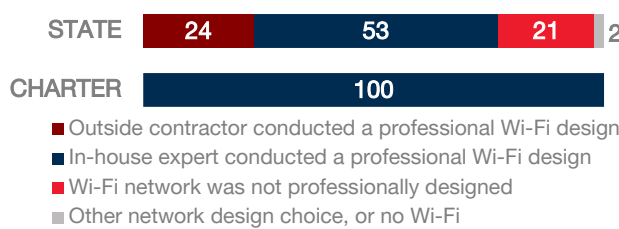
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

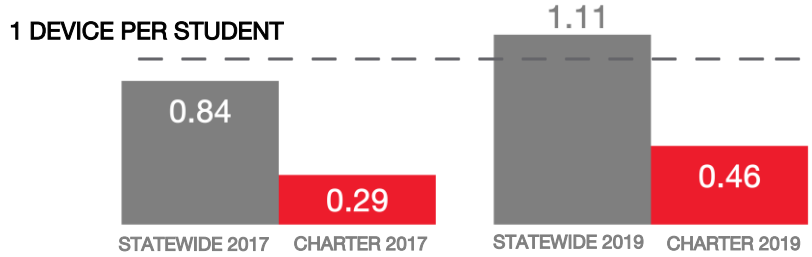
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

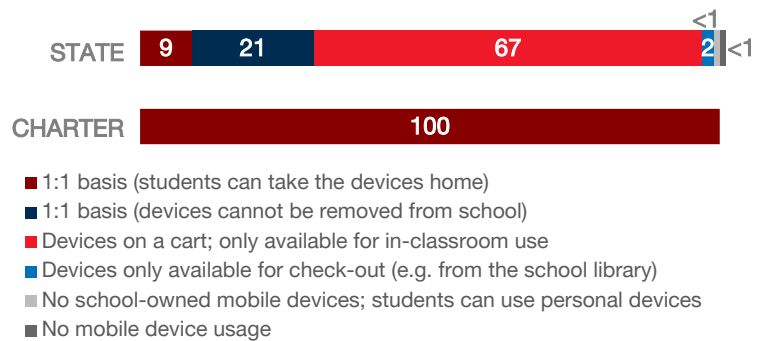


### COMPUTING DEVICES USED IN SCHOOLS

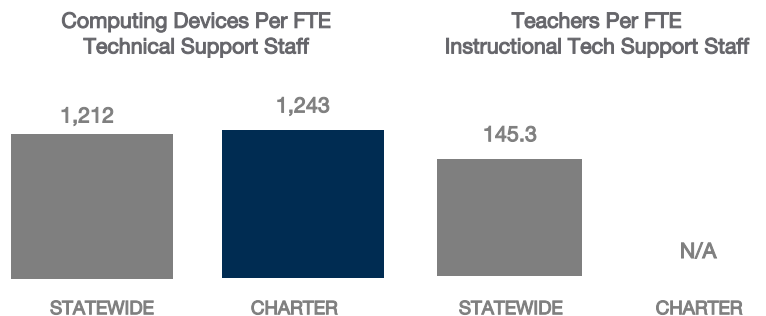
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	30	11	6	17%
Laptops   Windows OS	15	10	-109	-81%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	2	2	N/A
Chromebooks   Google	200	50	247	8233%
Tablets   Windows	1	1	2	N/A
Tablets   Android	50	0	-34	-40%
Tablets   IOS	0	3	1	50%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



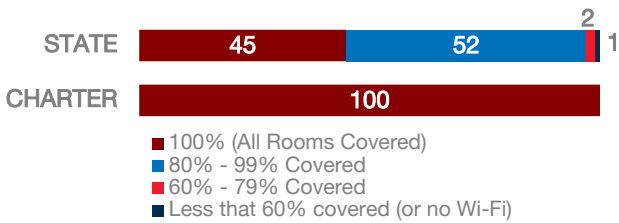
## Canyon Rim Academy

### CHARTER FACTS

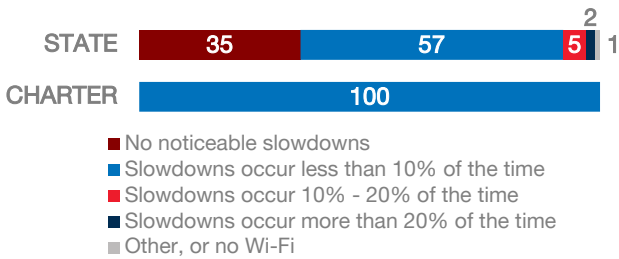
Area Population	N/A
Enrollment	513
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

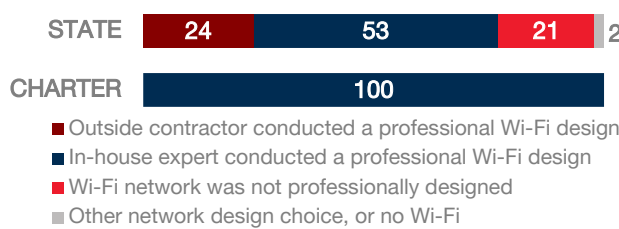
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

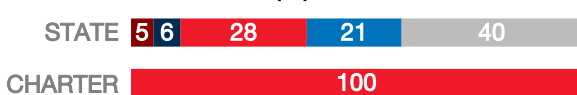


### NETWORK GEAR IN SCHOOLS

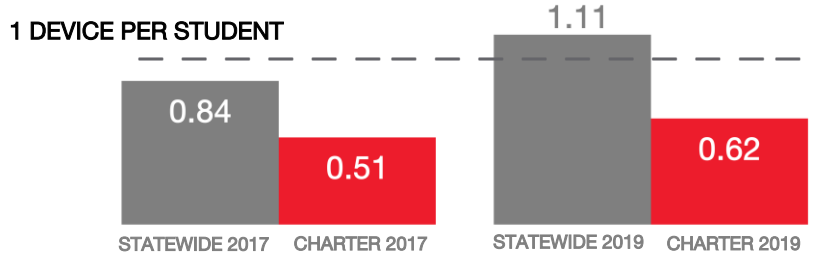
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

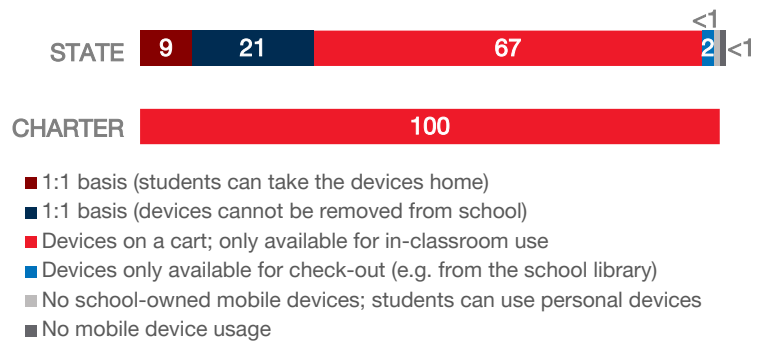


### COMPUTING DEVICES USED IN SCHOOLS

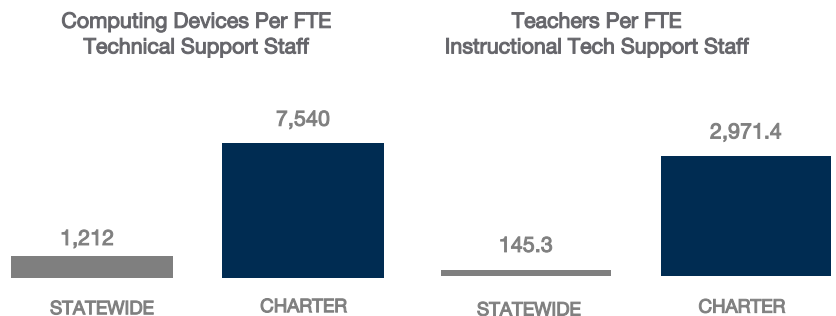
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	37	0	0%
Laptops   Windows OS	130	20	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	2	0	0%
Chromebooks   Google	153	0	50	49%
Tablets   Windows	0	0	0	N/A
Tablets   Android	15	0	10	200%
Tablets   IOS	20	0	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



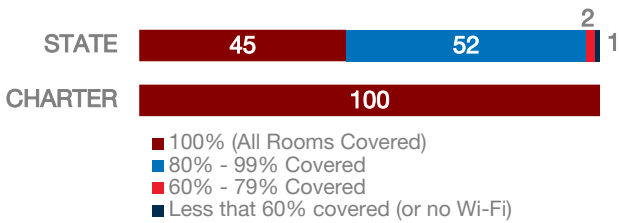
## Capstone Classical Academy

### CHARTER FACTS

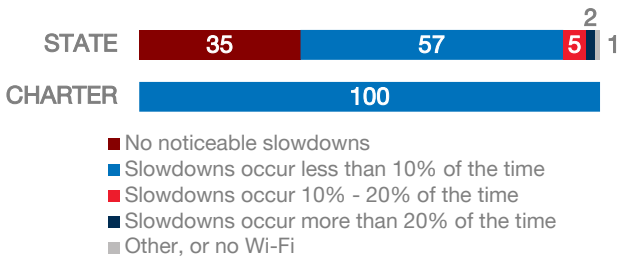
Area Population	N/A
Enrollment	177
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

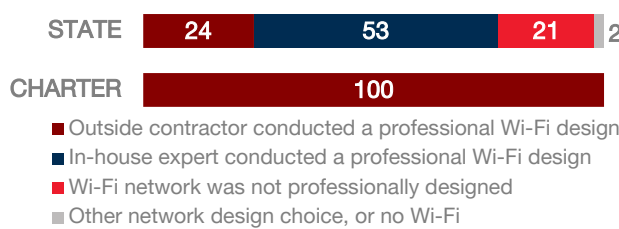
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

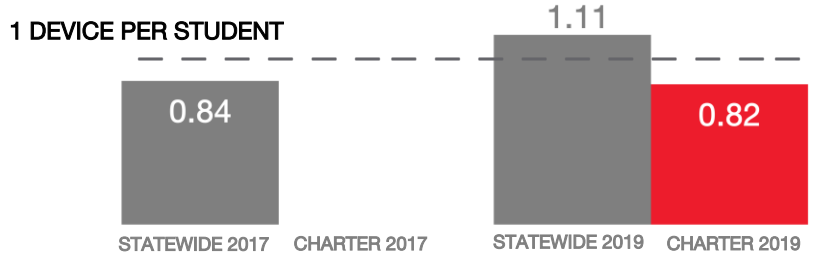


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr. Old ■ 1 Year Old ■ 2 Years Old  
■ 3 Years Old ■ 4+ Years Old ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

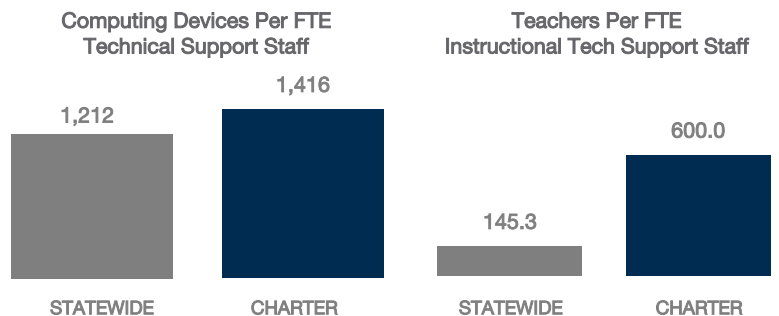
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	4	4	N/A
Laptops   Windows OS	30	28	58	N/A
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	115	0	115	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





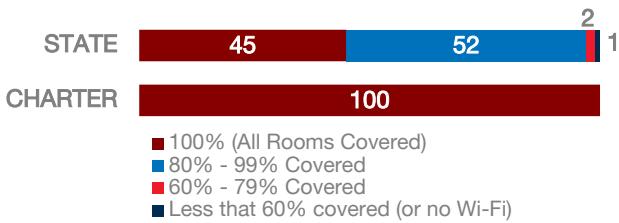
## Center for Creativity Innovation And Discovery

### CHARTER FACTS

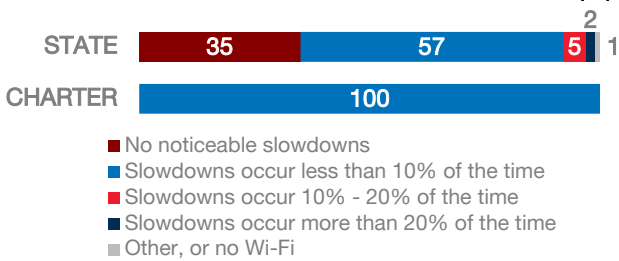
Area Population	N/A
Enrollment	510
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

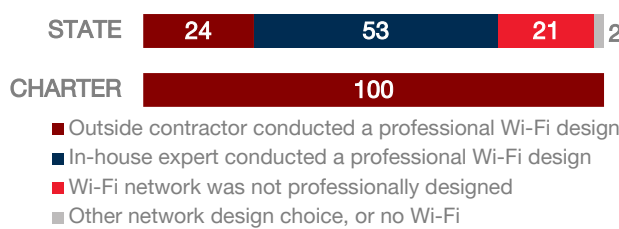
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

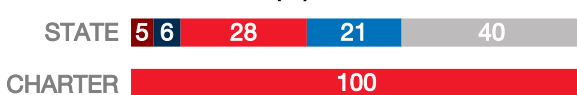


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

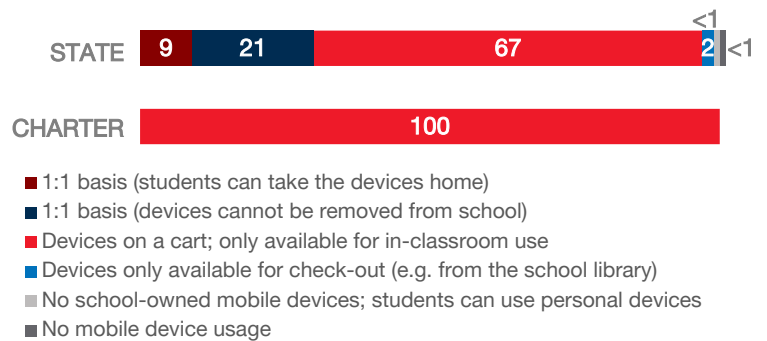


### COMPUTING DEVICES USED IN SCHOOLS

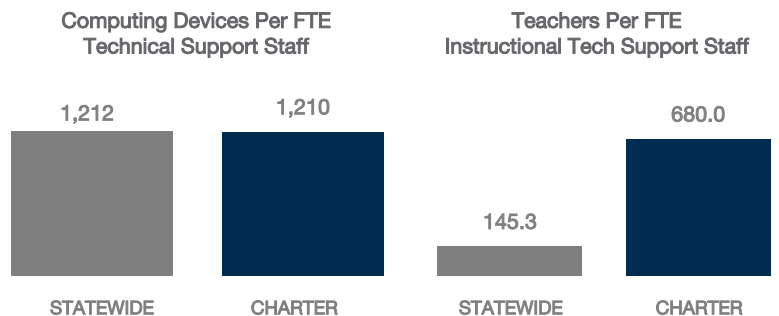
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	12	2	14	N/A
Laptops   Windows OS	0	2	2	N/A
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	17	17	N/A
Chromebooks   Google	211	2	213	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	30	0	30	N/A
Tablets   IOS	70	17	87	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





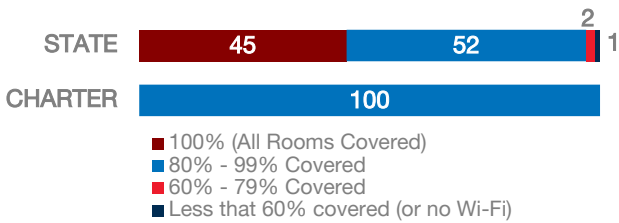
## Channing Hall

### CHARTER FACTS

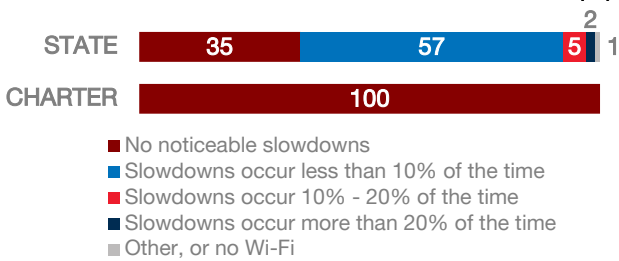
Area Population	N/A
Enrollment	621
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

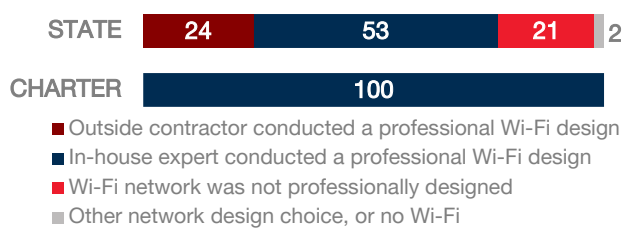
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

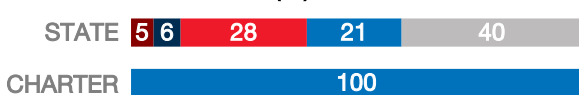


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

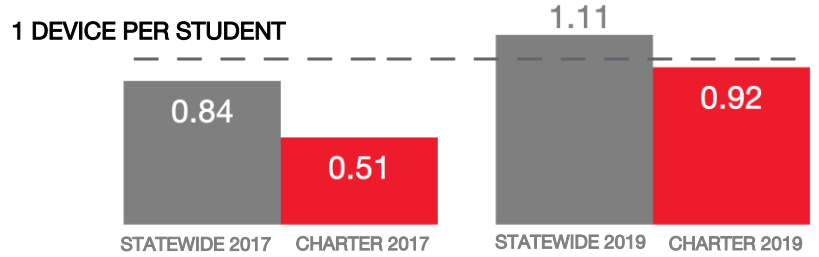


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr. Old ■ 1 Year Old ■ 2 Years Old  
 ■ 3 Years Old ■ 4+ Years Old ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	14	24	-5	-12%
Laptops   Windows OS	0	54	-39	-42%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	537	0	261	95%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	21	6	0	0%

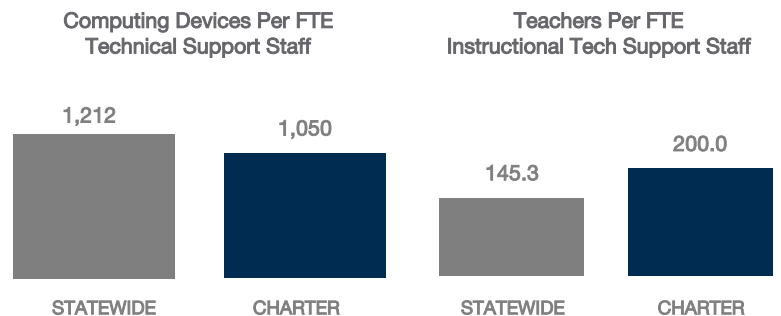
### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



- 1:1 basis (students can take the devices home)
- 1:1 basis (devices cannot be removed from school)
- Devices on a cart; only available for in-classroom use
- Devices only available for check-out (e.g. from the school library)
- No school-owned mobile devices; students can use personal devices
- No mobile device usage

### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



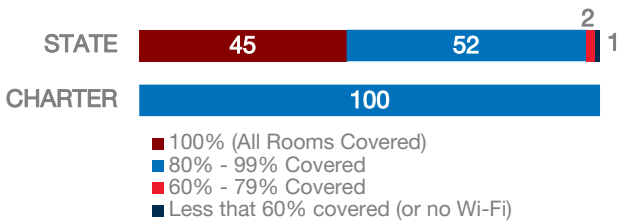
## City Academy

### CHARTER FACTS

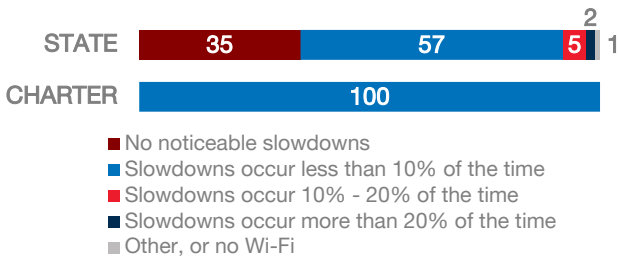
Area Population	N/A
Enrollment	168
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

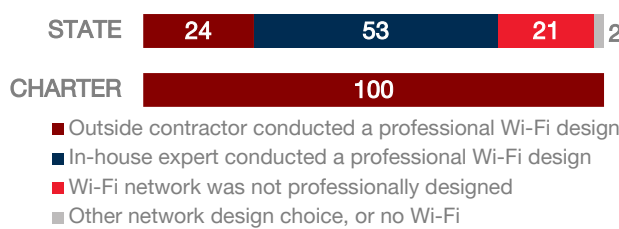
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

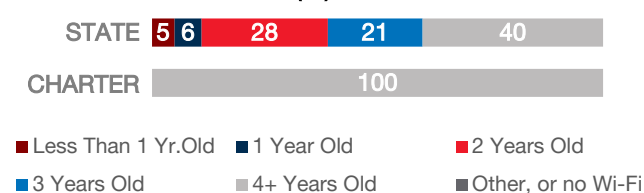


### NETWORK GEAR IN SCHOOLS

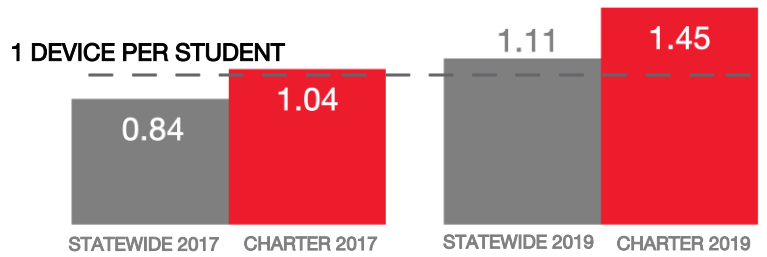
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

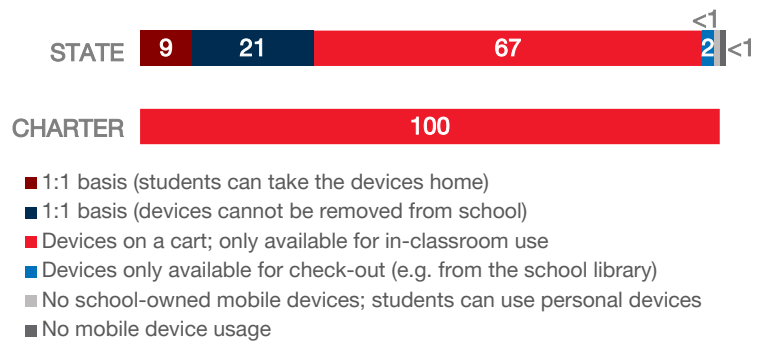


### COMPUTING DEVICES USED IN SCHOOLS

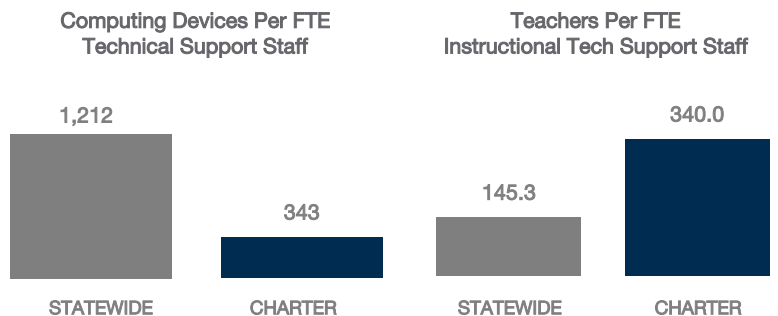
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	20	20	5	14%
Laptops   Windows OS	4	9	4	44%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	220	10	83	56%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	-10	-100%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



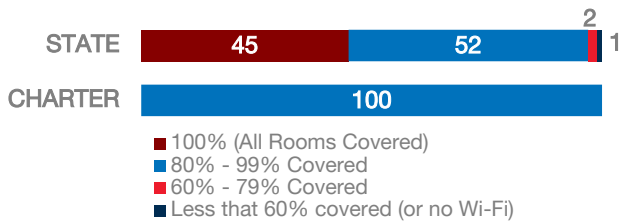
## DaVinci Academy of Science & The Arts

### CHARTER FACTS

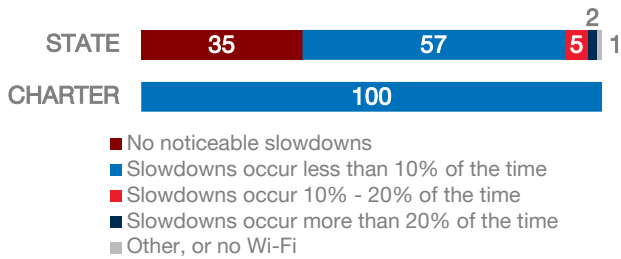
Area Population	N/A
Enrollment	1,190
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

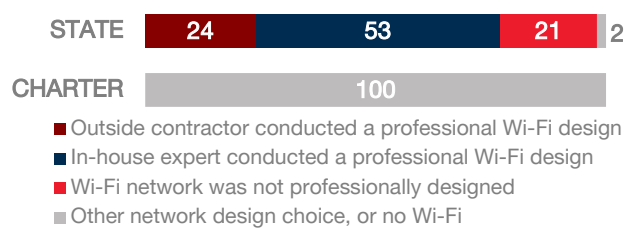
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

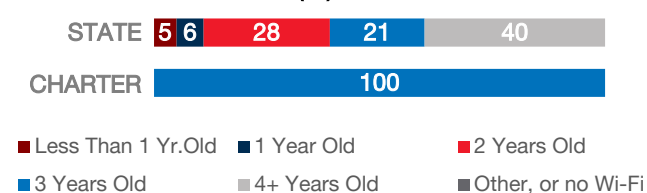


### NETWORK GEAR IN SCHOOLS

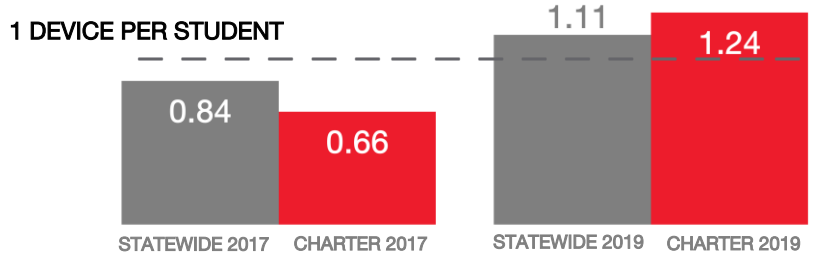
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

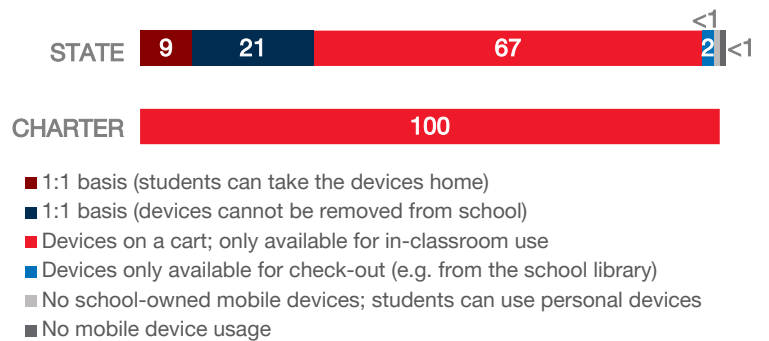


### COMPUTING DEVICES USED IN SCHOOLS

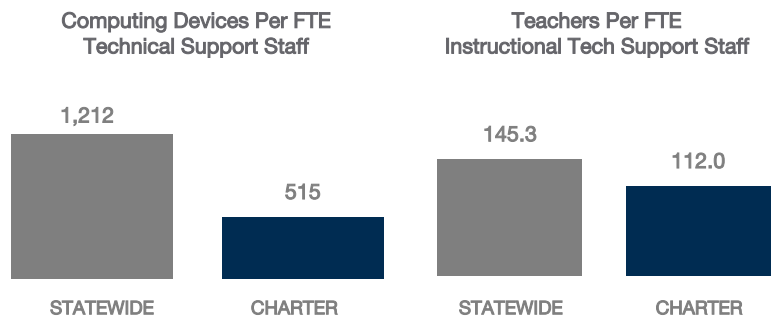
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	160	95	40	19%
Laptops   Windows OS	850	110	400	71%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	380	120	320	178%
Tablets   Windows	0	3	0	0%
Tablets   Android	80	30	50	83%
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



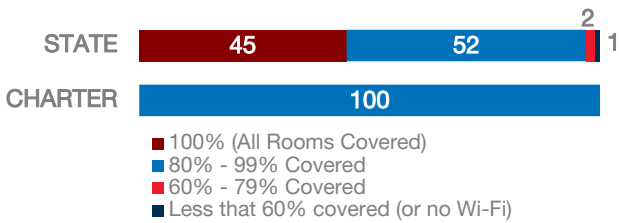
## Dixie Montessori Academy

### CHARTER FACTS

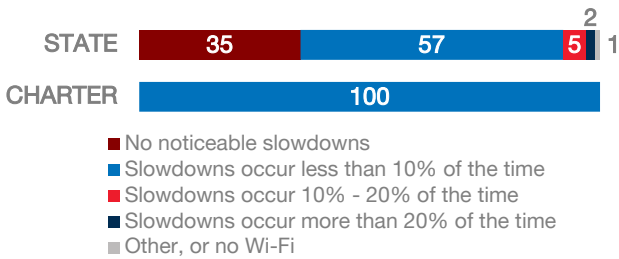
Area Population	N/A
Enrollment	277
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

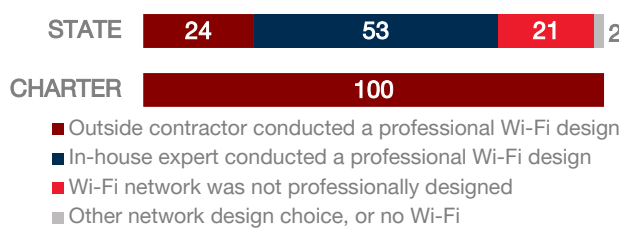
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

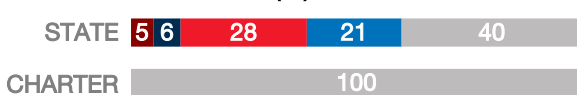


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

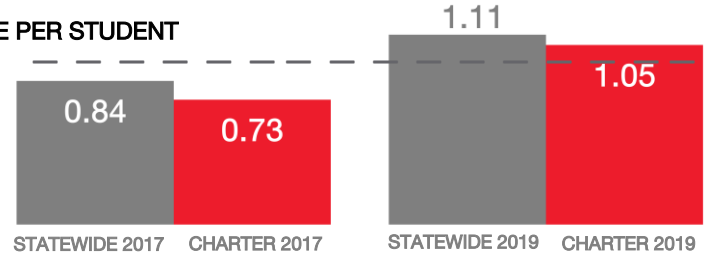


#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	14	0	0%
Laptops   Windows OS	0	4	0	0%
Desktops   Mac	0	1	0	0%
Laptops   Mac	0	1	0	0%
Chromebooks   Google	250	17	0	0%
Tablets   Windows	0	0	0	N/A
Tablets   Android	40	2	-8	-16%
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

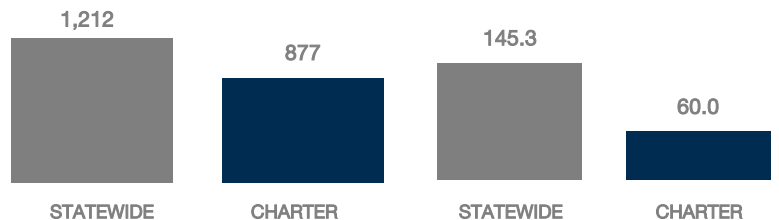
#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS

#### Computing Devices Per FTE Technical Support Staff

#### Teachers Per FTE Instructional Tech Support Staff



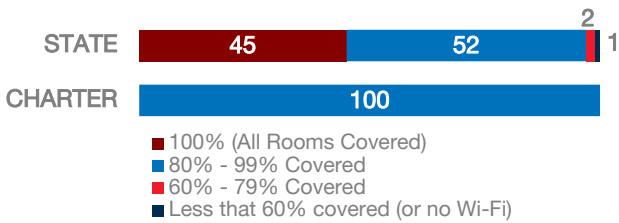
## Dual Immersion Academy

### CHARTER FACTS

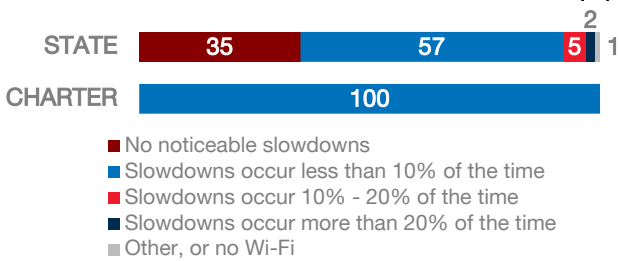
Area Population	N/A
Enrollment	470
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

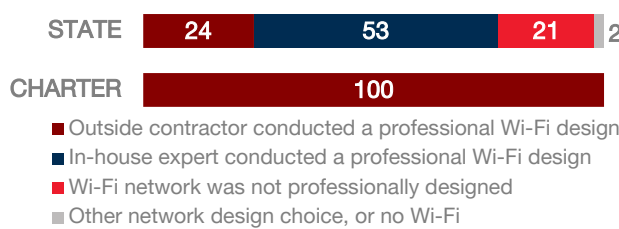
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

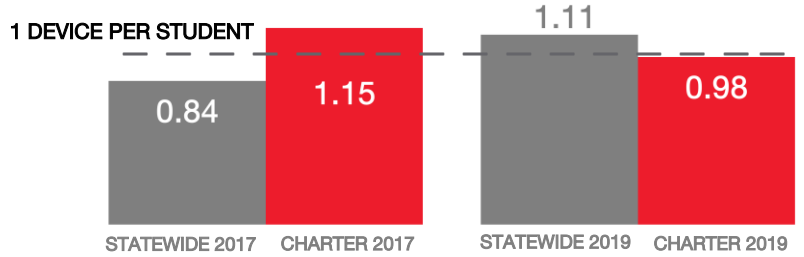
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

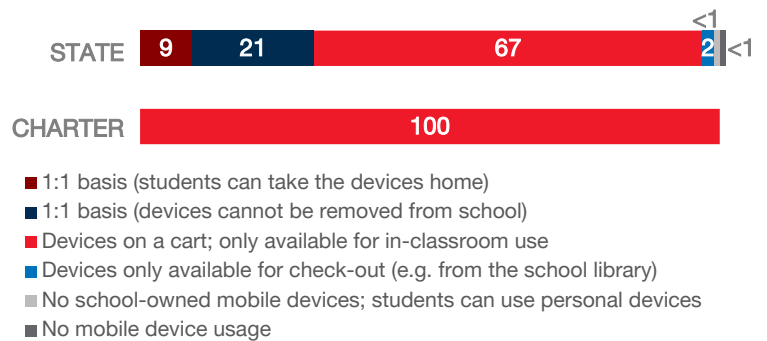


### COMPUTING DEVICES USED IN SCHOOLS

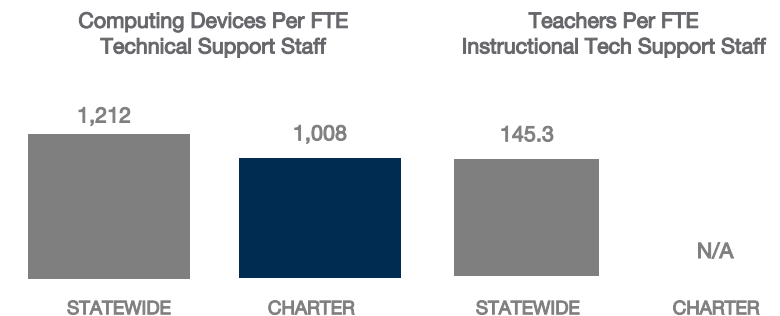
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	60	100	0	0%
Laptops   Windows OS	0	25	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	400	5	0	0%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	15	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





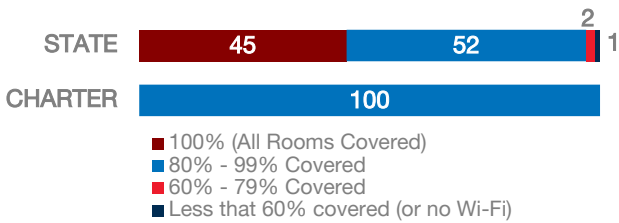
## East Hollywood High School

### CHARTER FACTS

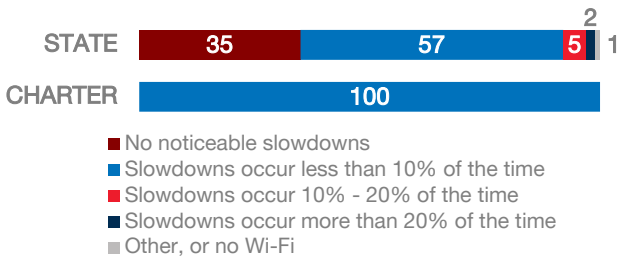
Area Population	N/A
Enrollment	320
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

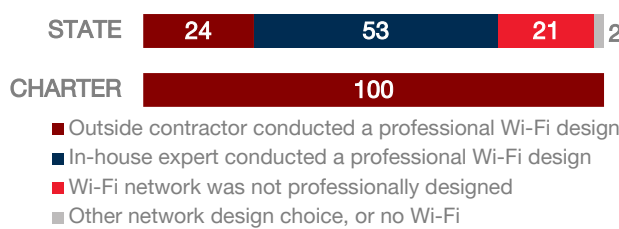
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

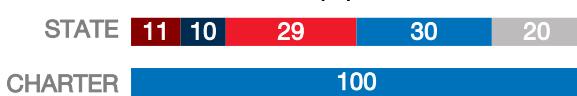


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

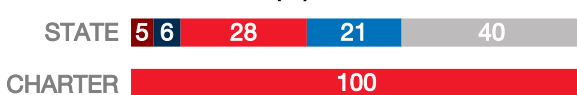


### NETWORK GEAR IN SCHOOLS

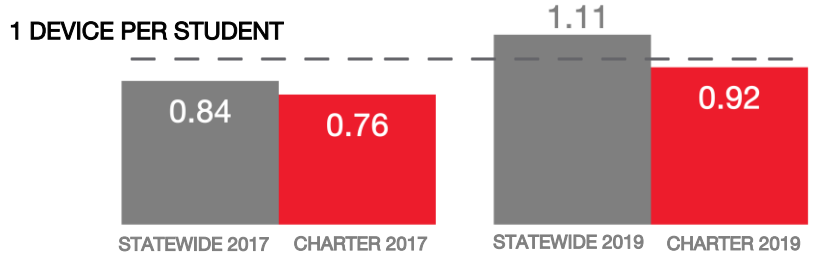
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

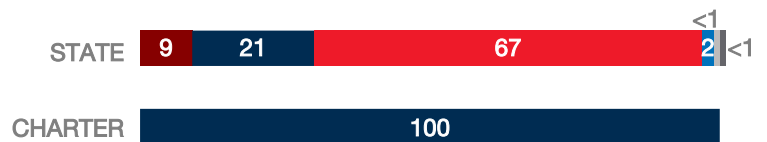


### COMPUTING DEVICES USED IN SCHOOLS

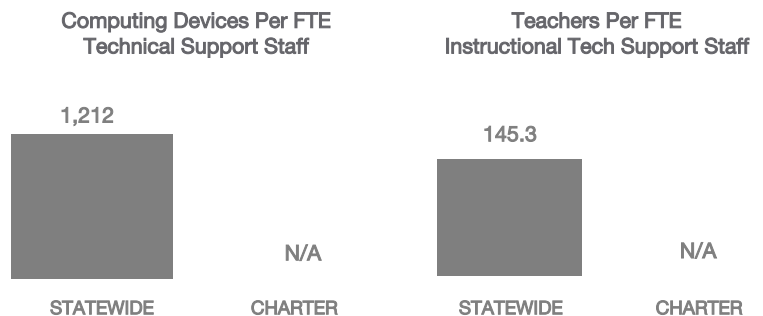
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	50	30	-50	-38%
Laptops   Windows OS	15	0	-45	-75%
Desktops   Mac	30	3	0	0%
Laptops   Mac	0	0	-5	-100%
Chromebooks   Google	200	0	120	150%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





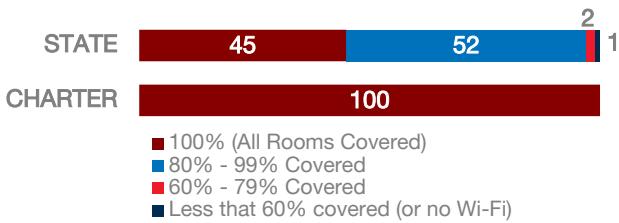
## Edith Bowen Laboratory School

### CHARTER FACTS

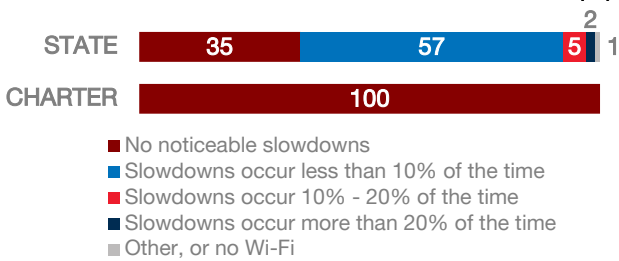
Area Population	N/A
Enrollment	358
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

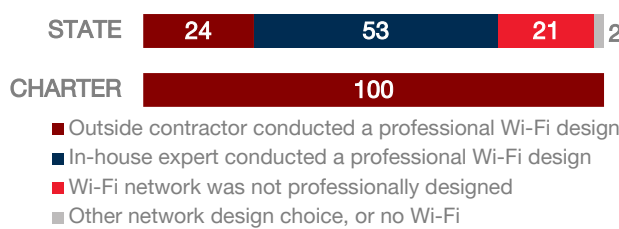
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

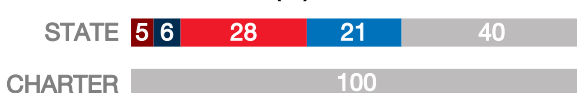


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

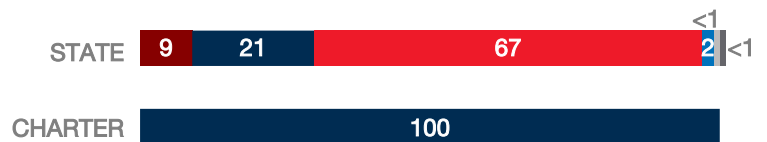


### COMPUTING DEVICES USED IN SCHOOLS

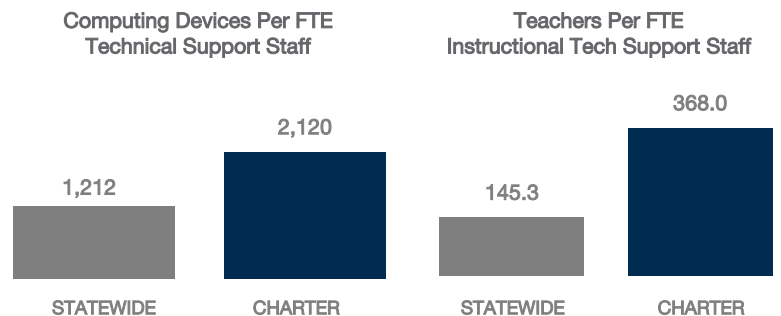
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	7	1	17%
Laptops   Windows OS	0	3	-1	-25%
Desktops   Mac	8	0	-4	-33%
Laptops   Mac	0	27	13	93%
Chromebooks   Google	213	0	-147	-41%
Tablets   Windows	0	2	-1	-33%
Tablets   Android	0	1	1	N/A
Tablets   IOS	80	30	89	424%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



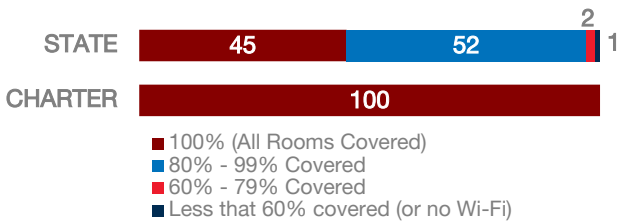
## Endeavor Hall

### CHARTER FACTS

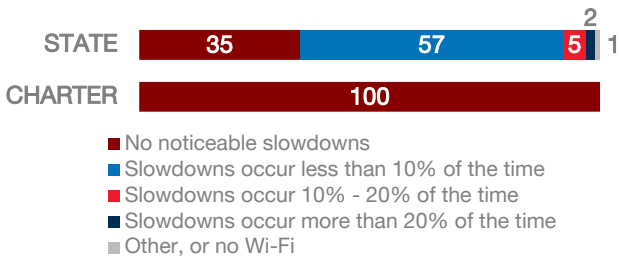
Area Population	N/A
Enrollment	343
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

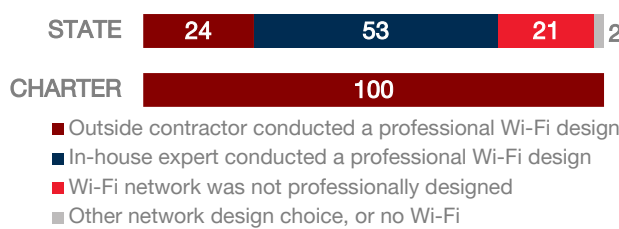
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

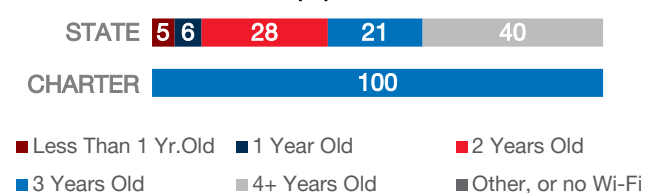


### NETWORK GEAR IN SCHOOLS

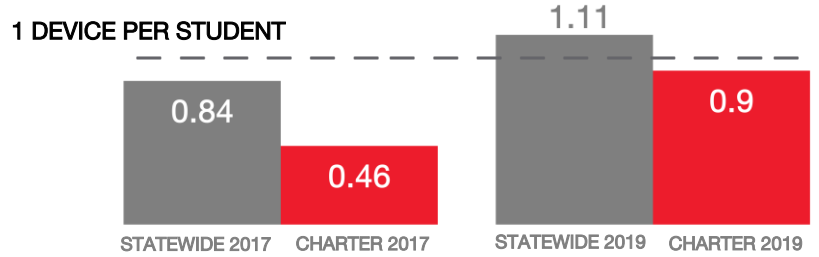
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

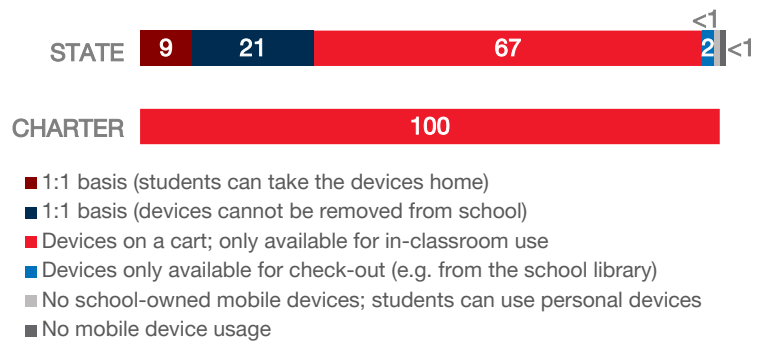


### COMPUTING DEVICES USED IN SCHOOLS

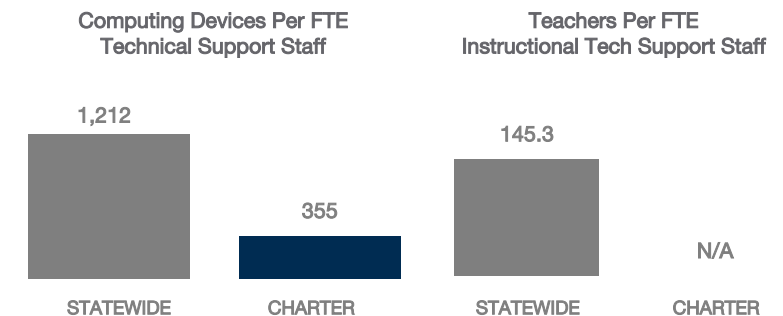
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	3	1	50%
Laptops   Windows OS	150	45	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	151	0	36	31%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



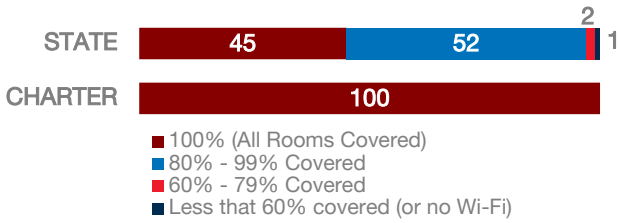
## Entheos Academy

### CHARTER FACTS

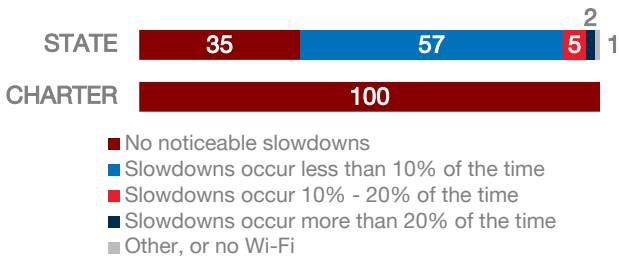
Area Population	N/A
Enrollment	1,057
Number of Schools	2
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

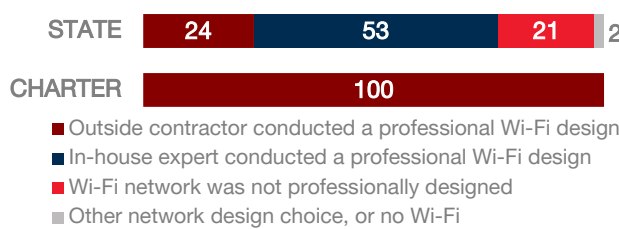
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

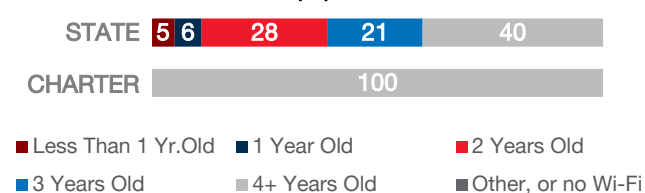


### NETWORK GEAR IN SCHOOLS

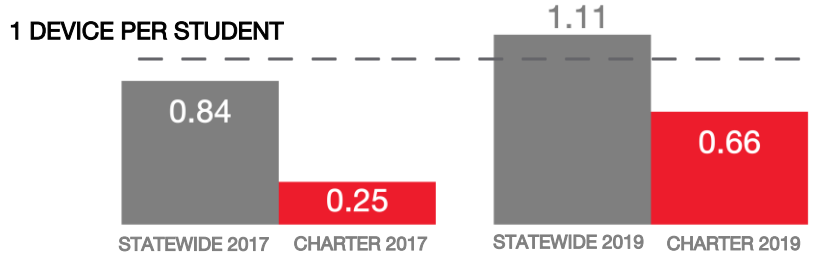
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

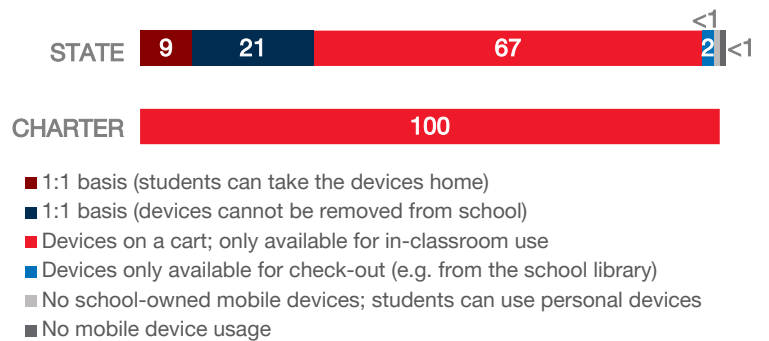


### COMPUTING DEVICES USED IN SCHOOLS

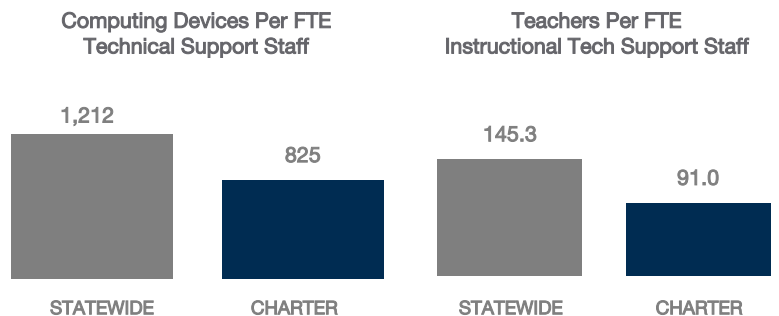
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	88	3	4	5%
Laptops   Windows OS	78	110	73	63%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	514	0	334	186%
Tablets   Windows	0	0	0	N/A
Tablets   Android	12	11	23	N/A
Tablets   IOS	9	0	-1	-10%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



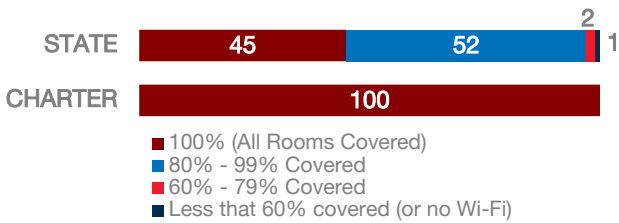
## Esperanza Elementary

### CHARTER FACTS

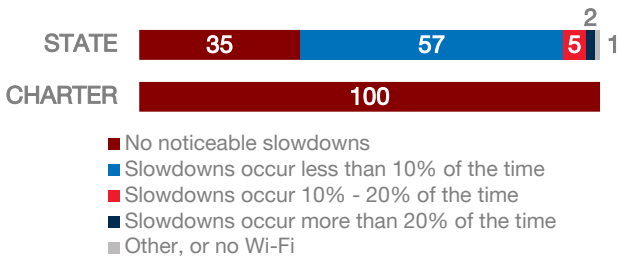
Area Population	N/A
Enrollment	535
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

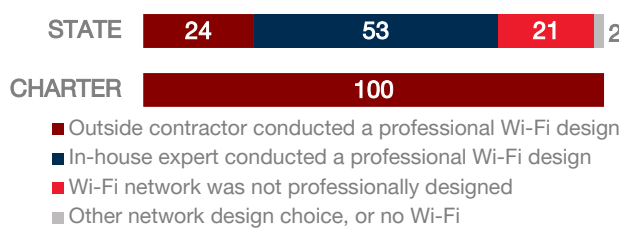
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

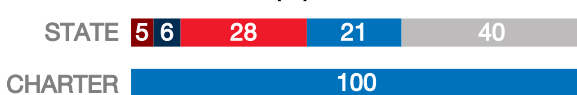


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



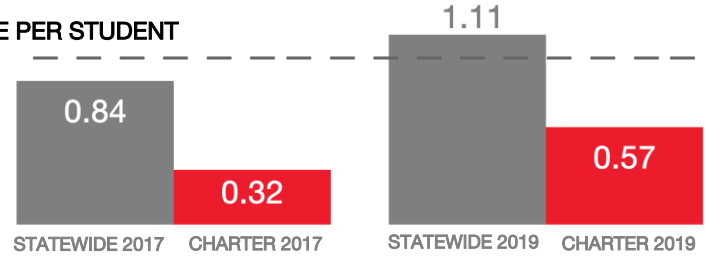
#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr.Old   ■ 1 Year Old   ■ 2 Years Old  
■ 3 Years Old   ■ 4+ Years Old   ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	26	30	0	0%
Laptops   Windows OS	0	10	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	270	0	180	200%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	10	0	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)

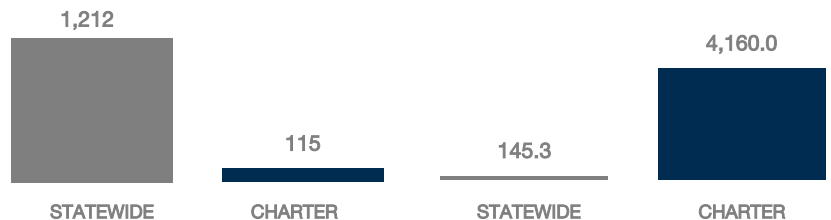


- 1:1 basis (students can take the devices home)
- 1:1 basis (devices cannot be removed from school)
- Devices on a cart; only available for in-classroom use
- Devices only available for check-out (e.g. from the school library)
- No school-owned mobile devices; students can use personal devices
- No mobile device usage

### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS

#### Computing Devices Per FTE Technical Support Staff

#### Teachers Per FTE Instructional Tech Support Staff



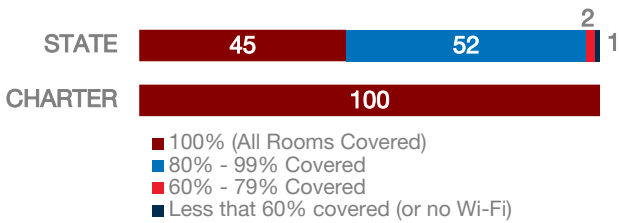
## Excelsior Academy

### CHARTER FACTS

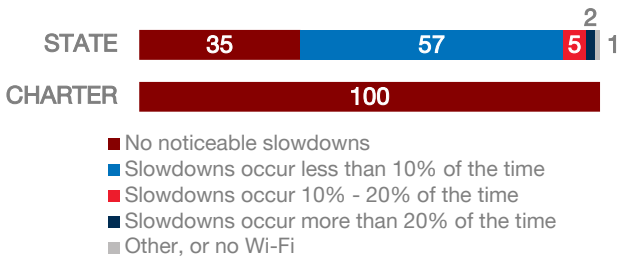
Area Population	N/A
Enrollment	1,325
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

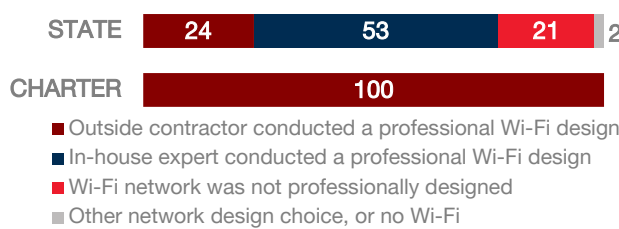
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

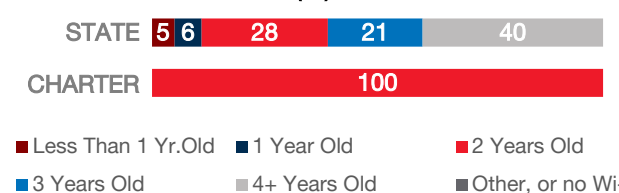


### NETWORK GEAR IN SCHOOLS

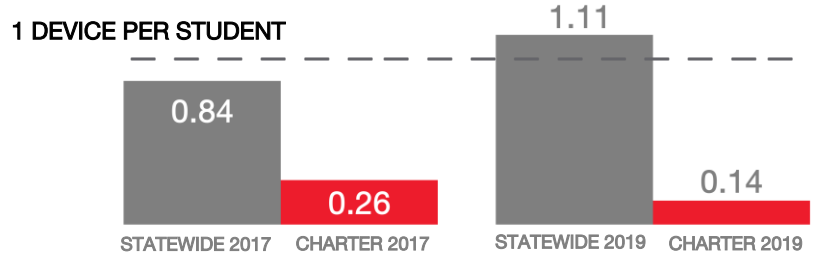
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

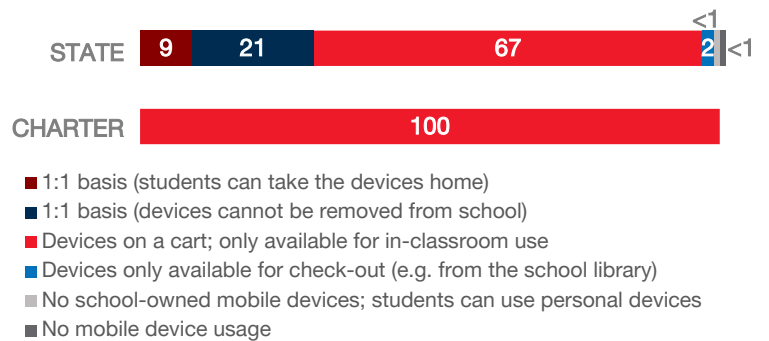


### COMPUTING DEVICES USED IN SCHOOLS

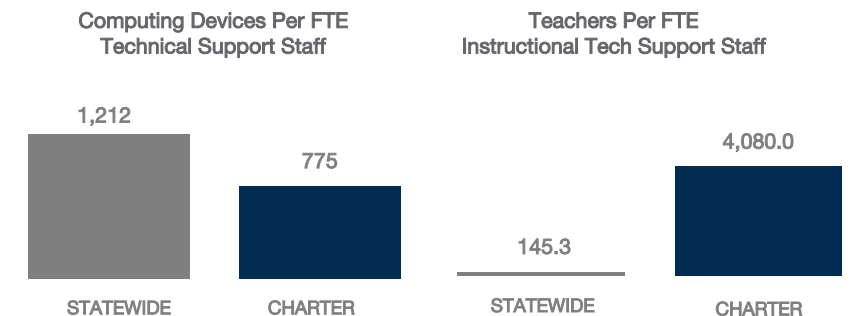
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	0	N/A
Laptops   Windows OS	0	90	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	60	0	0	0%
Chromebooks   Google	120	0	0	0%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	40	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





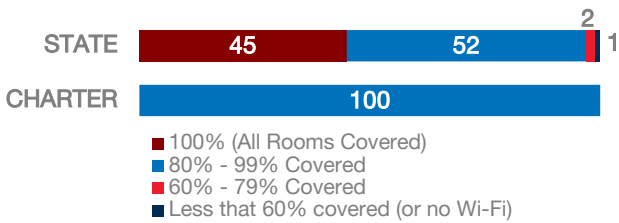
## Fast Forward Charter High School

### CHARTER FACTS

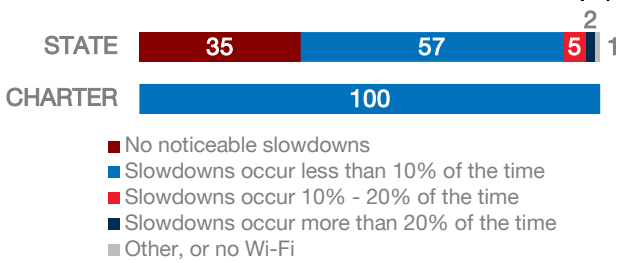
Area Population	N/A
Enrollment	260
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

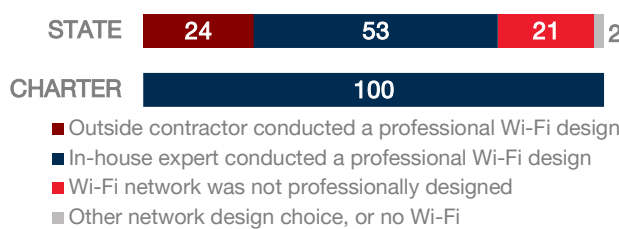
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

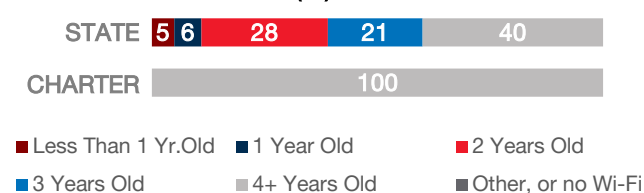


### NETWORK GEAR IN SCHOOLS

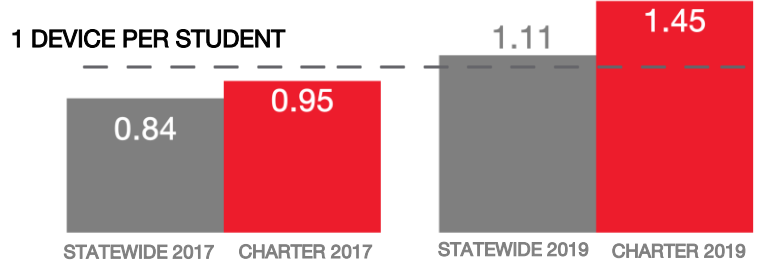
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

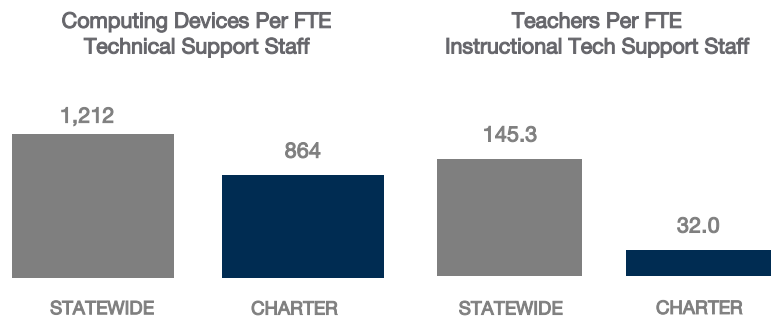
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	40	20	0	0%
Laptops   Windows OS	30	4	-20	-37%
Desktops   Mac	17	3	-1	-5%
Laptops   Mac	40	3	20	87%
Chromebooks   Google	250	0	150	150%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	25	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





## Franklin Discovery Academy

### CHARTER FACTS

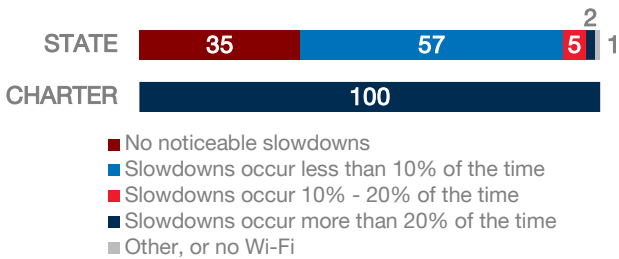
Area Population	N/A
Enrollment	576
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

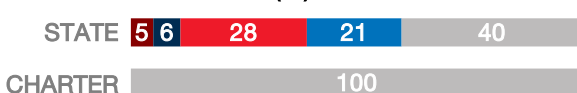


### NETWORK GEAR IN SCHOOLS

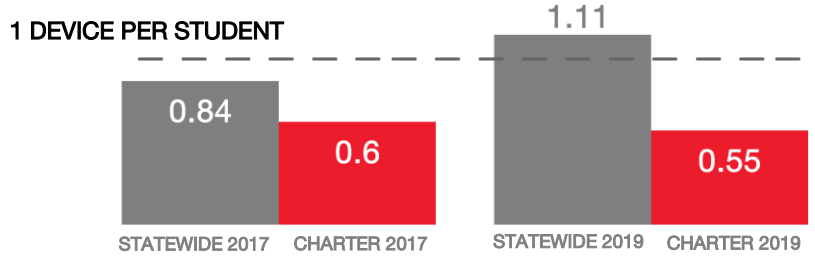
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

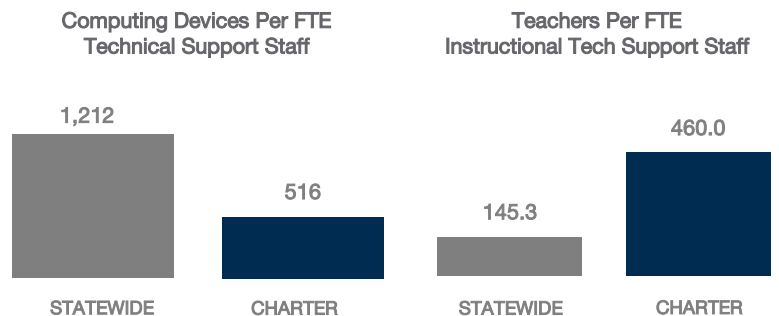
Device/OS	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	10	1	11	N/A
Laptops   Windows OS	0	34	14	70%
Desktops   Mac	0	3	-1	-25%
Laptops   Mac	0	15	5	50%
Chromebooks   Google	300	15	-5	-2%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	7	2	7	350%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



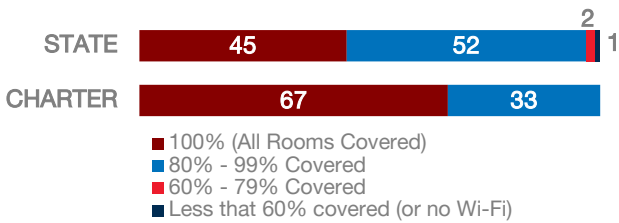
## Freedom Preparatory Academy

### CHARTER FACTS

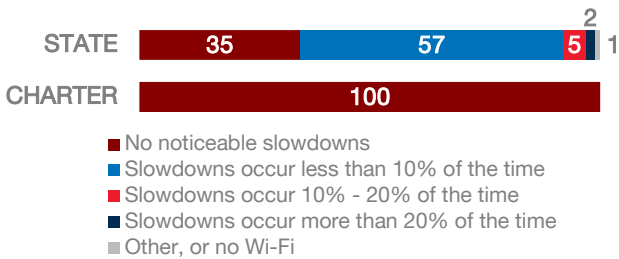
Area Population	N/A
Enrollment	1,952
Number of Schools	3
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

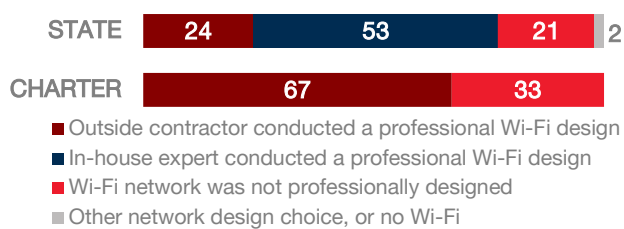
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

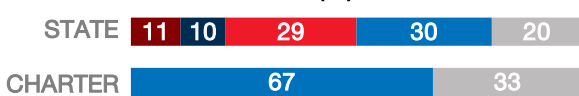


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

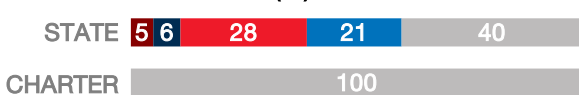


### NETWORK GEAR IN SCHOOLS

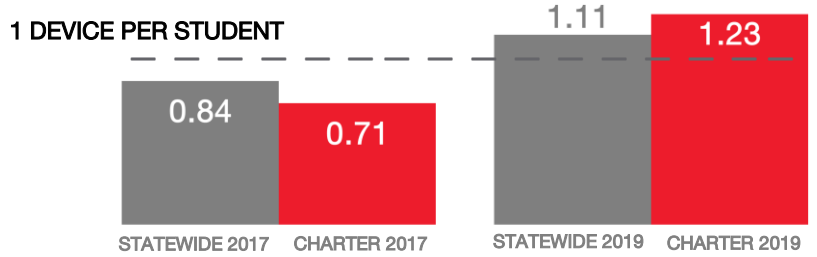
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

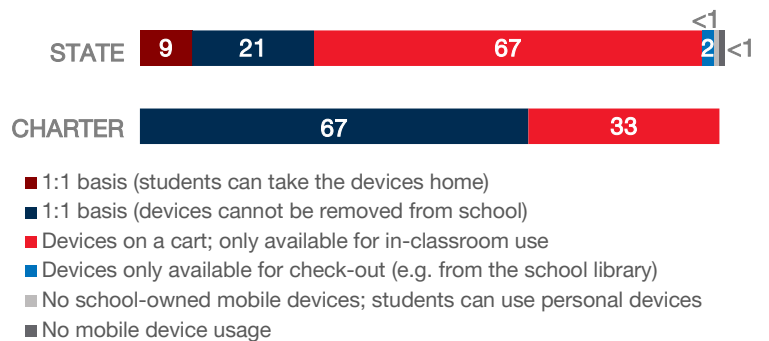


### COMPUTING DEVICES USED IN SCHOOLS

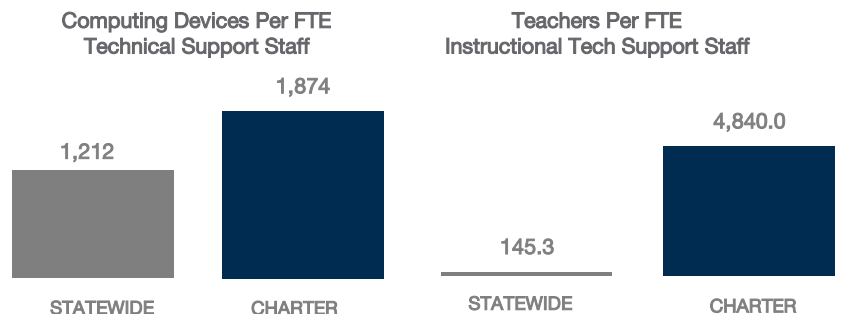
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	79	116	15	8%
Laptops   Windows OS	27	6	-70	-68%
Desktops   Mac	37	27	-2	-3%
Laptops   Mac	0	7	2	40%
Chromebooks   Google	1,966	0	1,376	233%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	300	12	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



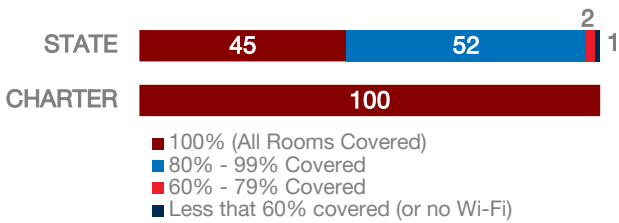
## Gateway Preparatory Academy

### CHARTER FACTS

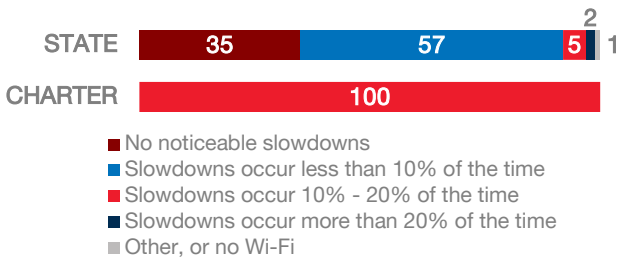
Area Population	N/A
Enrollment	680
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

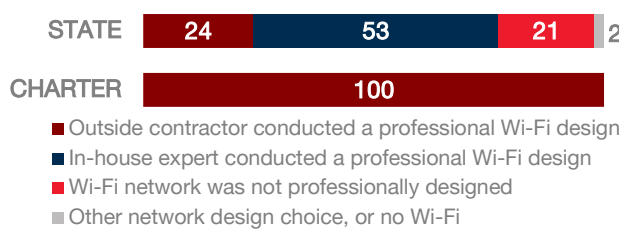
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

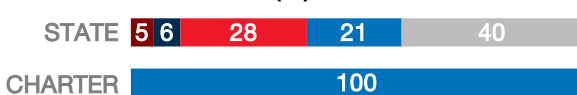


### NETWORK GEAR IN SCHOOLS

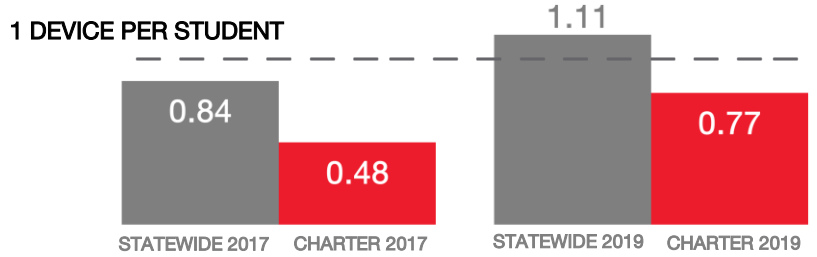
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

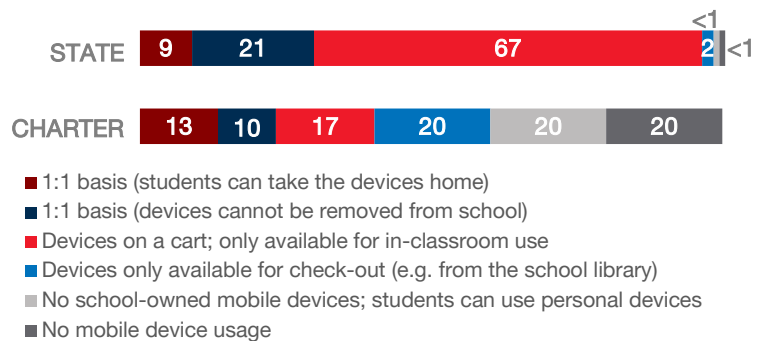


### COMPUTING DEVICES USED IN SCHOOLS

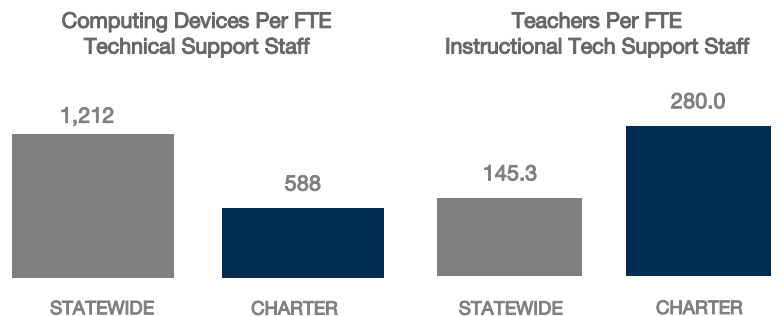
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	30	10	5	14%
Laptops   Windows OS	0	35	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	2	-2	-50%
Chromebooks   Google	450	0	160	55%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	45	16	33	118%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



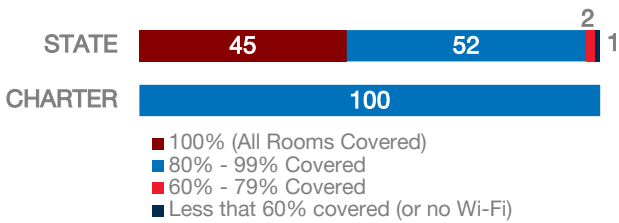
## George Washington Academy

### CHARTER FACTS

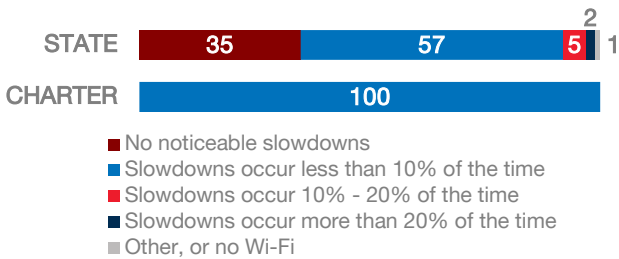
Area Population	N/A
Enrollment	998
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

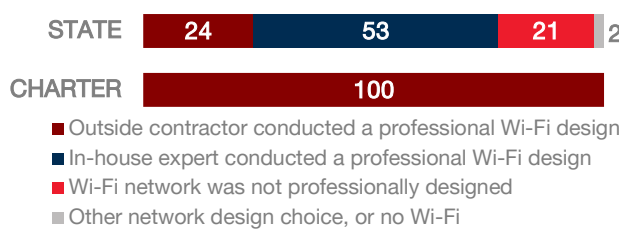
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

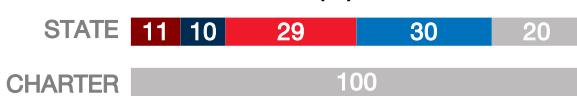


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

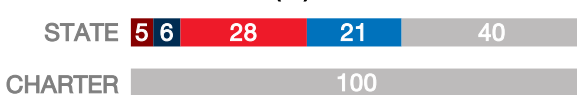


### NETWORK GEAR IN SCHOOLS

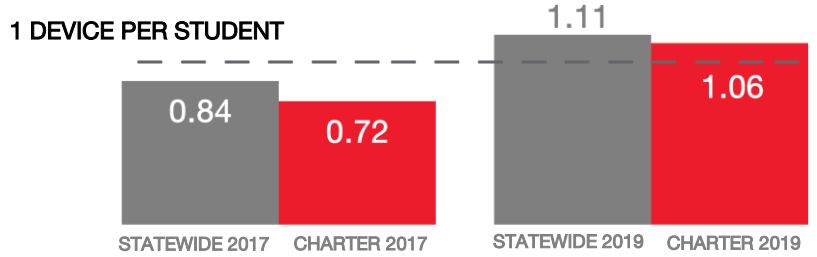
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

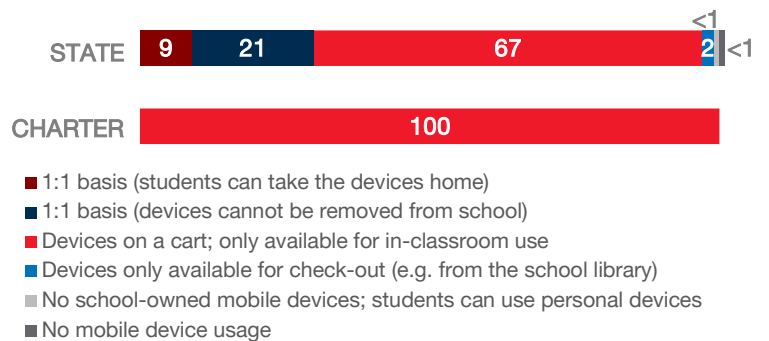


### COMPUTING DEVICES USED IN SCHOOLS

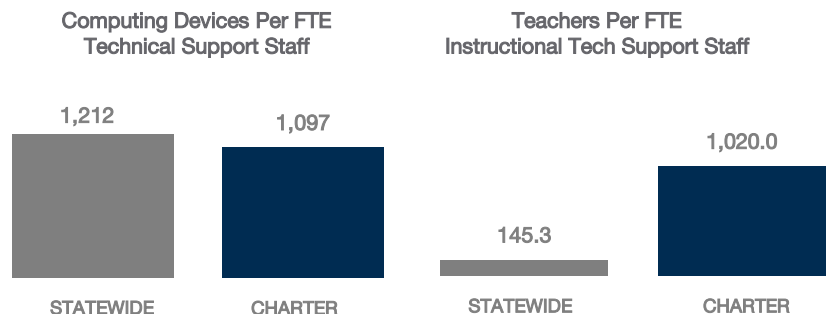
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	92	66	0	0%
Laptops   Windows OS	37	3	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	1	2	3	N/A
Chromebooks   Google	892	15	314	53%
Tablets   Windows	2	0	2	N/A
Tablets   Android	4	0	4	N/A
Tablets   IOS	32	6	7	23%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



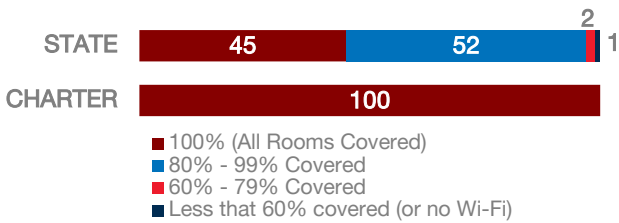
## Good Foundations Academy

### CHARTER FACTS

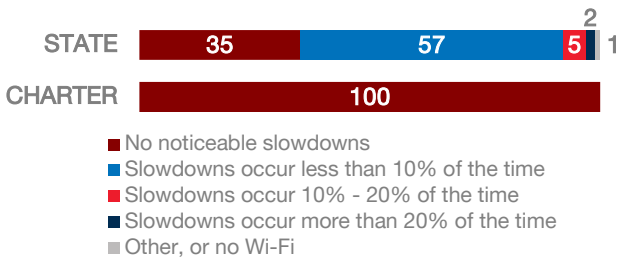
Area Population	N/A
Enrollment	489
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

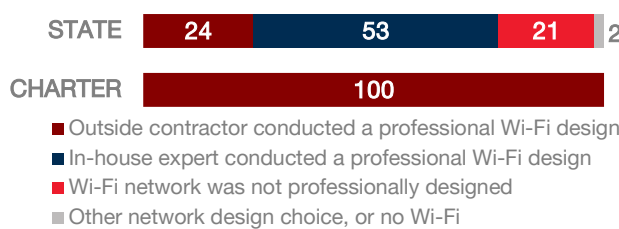
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

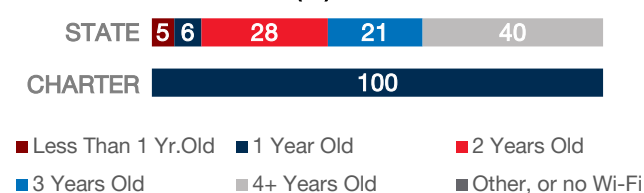


### NETWORK GEAR IN SCHOOLS

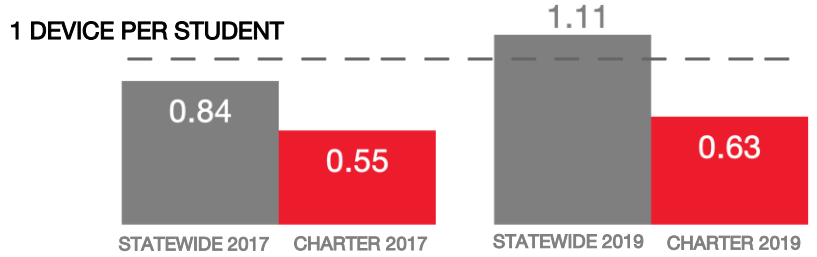
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

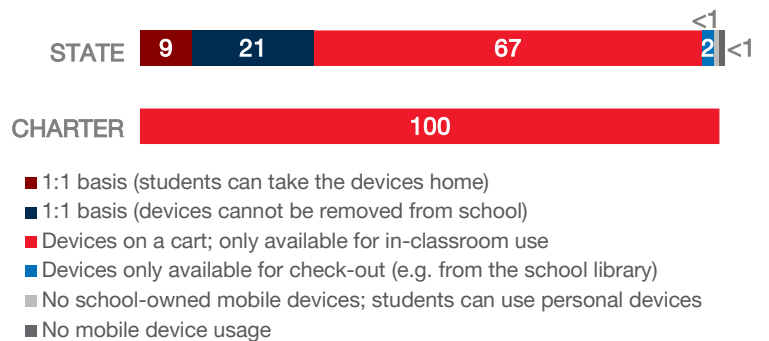


### COMPUTING DEVICES USED IN SCHOOLS

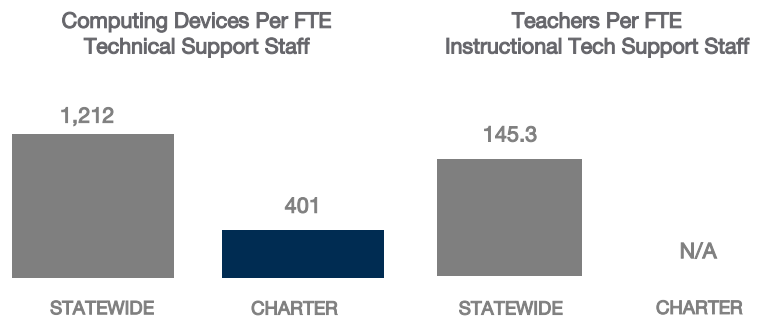
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	30	-26	-46%
Laptops   Windows OS	0	4	-20	-83%
Desktops   Mac	26	1	1	4%
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	260	0	80	44%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	20	0	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





## Greenwood Charter School

### CHARTER FACTS

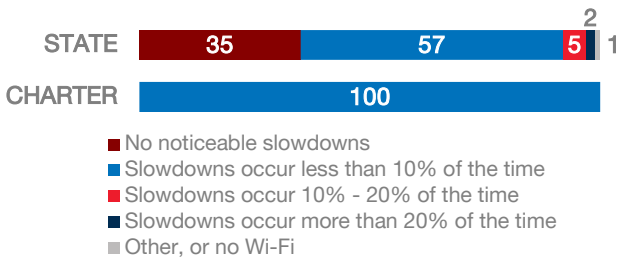
Area Population	N/A
Enrollment	380
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

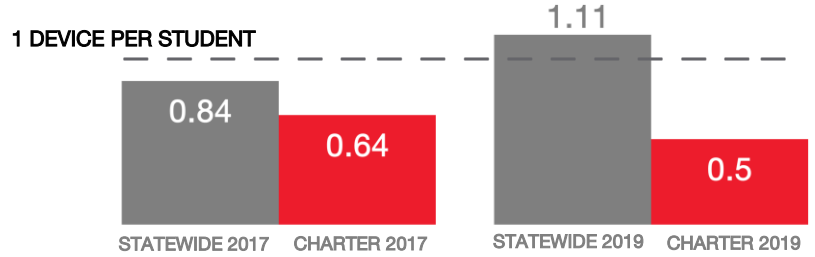
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

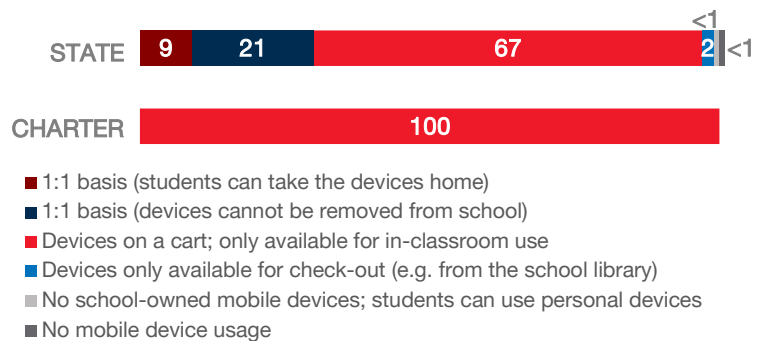


### COMPUTING DEVICES USED IN SCHOOLS

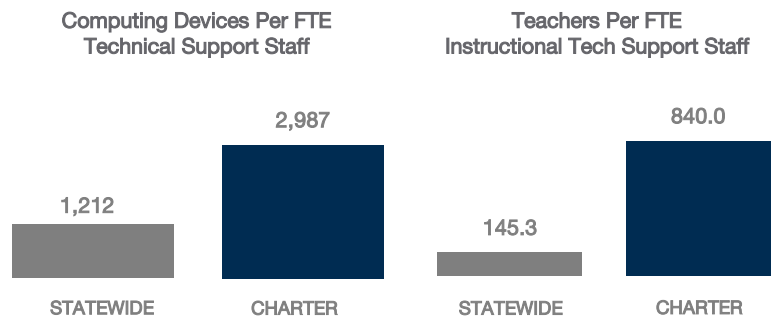
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	50	30	0	0%
Laptops   Windows OS	0	4	-6	-60%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	130	0	0	0%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	-50	-100%
Tablets   IOS	10	0	10	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





## Guadalupe School

### CHARTER FACTS

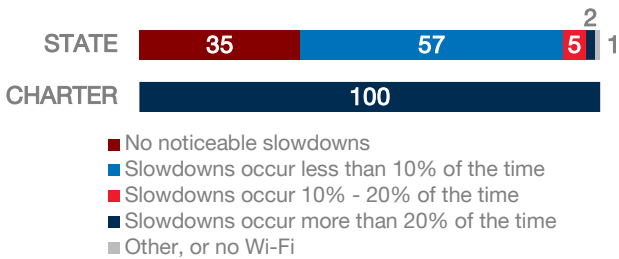
Area Population	N/A
Enrollment	425
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

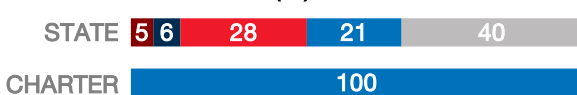


### NETWORK GEAR IN SCHOOLS

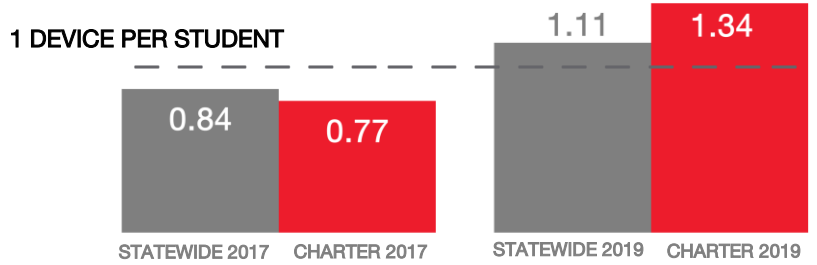
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

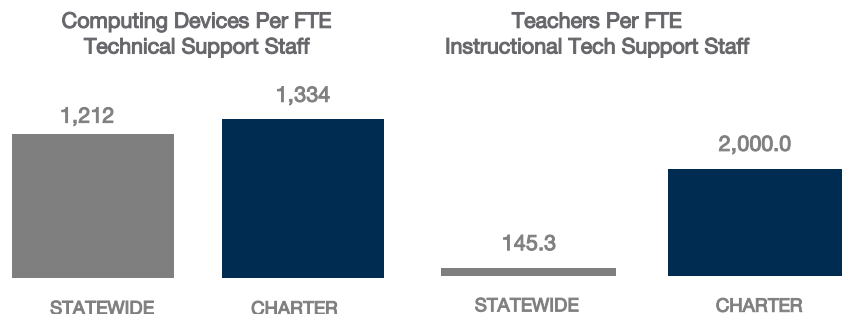
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	26	48	24	48%
Laptops   Windows OS	196	40	161	215%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	198	0	-82	-29%
Tablets   Windows	0	0	0	N/A
Tablets   Android	150	9	150	1667%
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



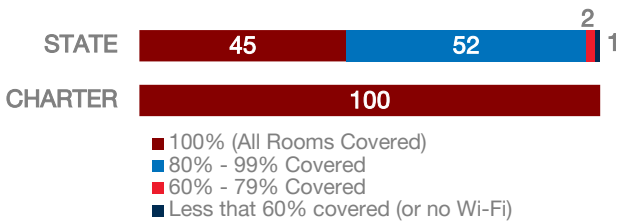
## Hawthorn Academy

### CHARTER FACTS

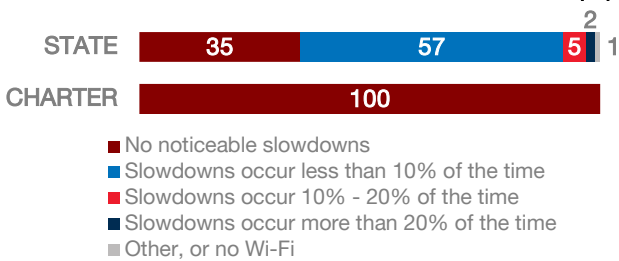
Area Population	N/A
Enrollment	1,409
Number of Schools	2
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

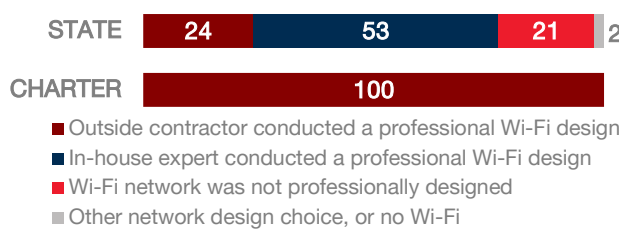
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

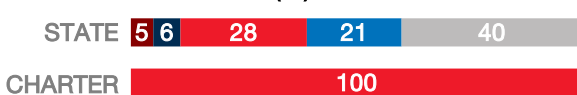


### NETWORK GEAR IN SCHOOLS

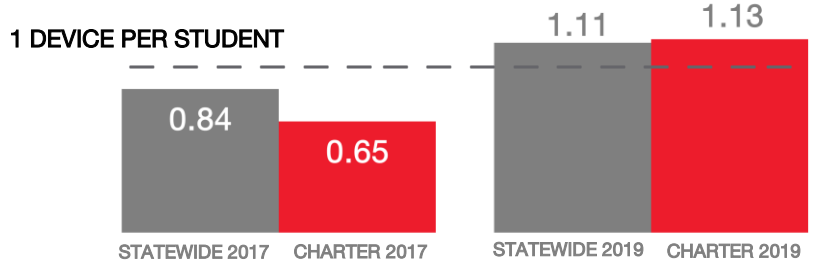
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

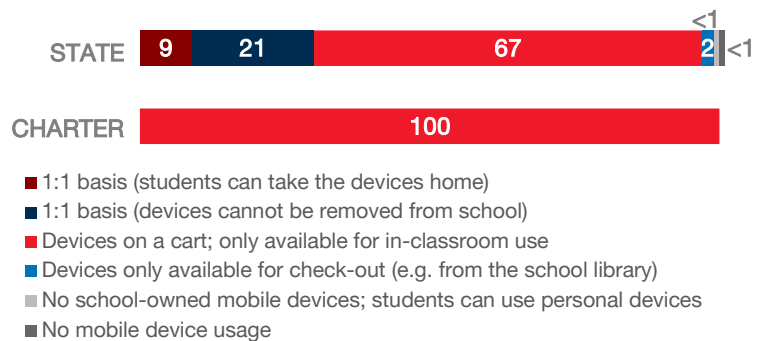


### COMPUTING DEVICES USED IN SCHOOLS

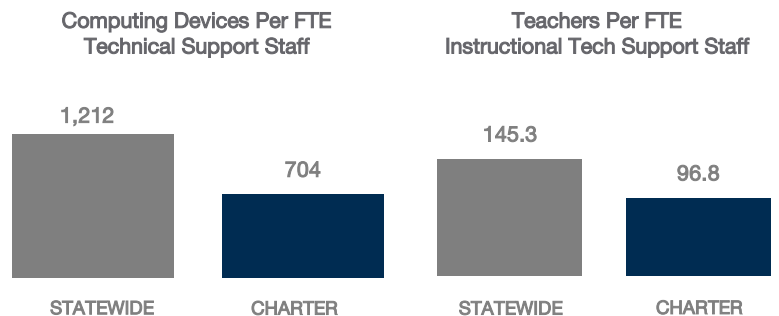
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	67	10	6	8%
Laptops   Windows OS	675	96	215	39%
Desktops   Mac	0	1	0	0%
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	764	0	425	125%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	83	63	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



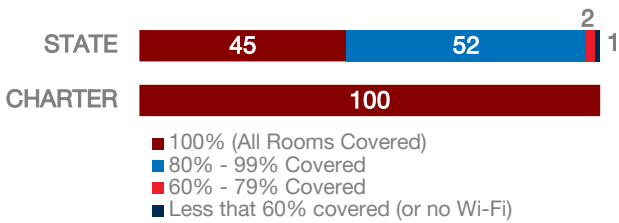
## Highmark Charter School

### CHARTER FACTS

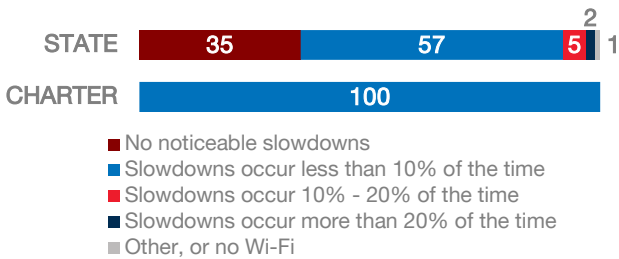
Area Population	N/A
Enrollment	621
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

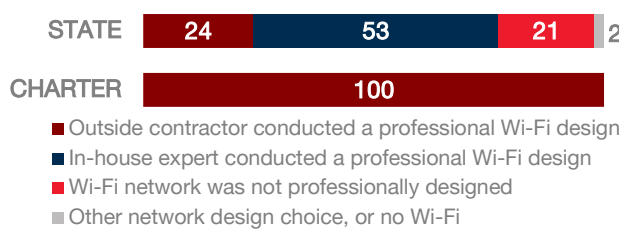
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

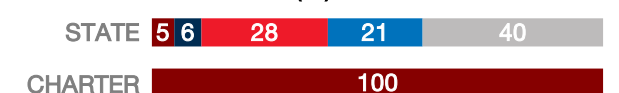


### NETWORK GEAR IN SCHOOLS

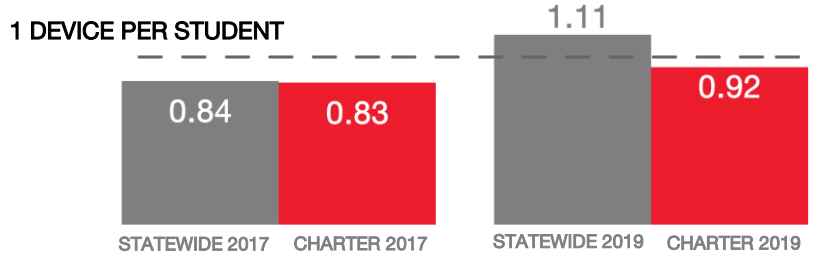
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

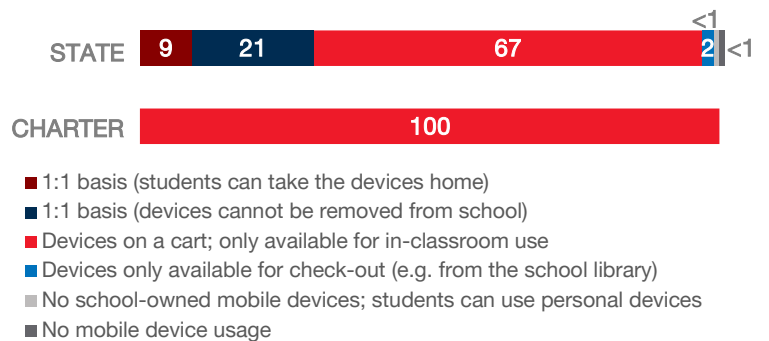


### COMPUTING DEVICES USED IN SCHOOLS

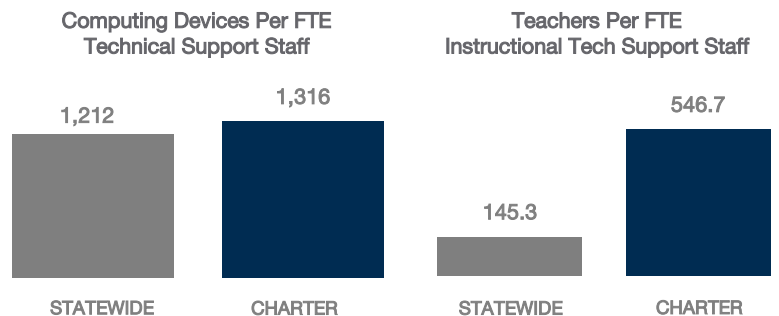
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	0	N/A
Laptops   Windows OS	540	70	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	30	51	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



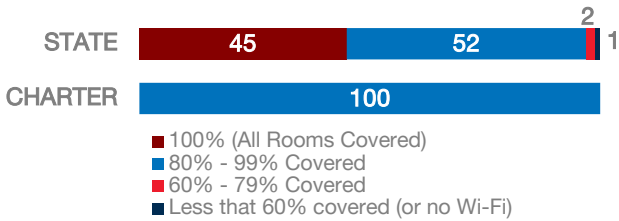
## Ignite Entrepreneurship Academy

### CHARTER FACTS

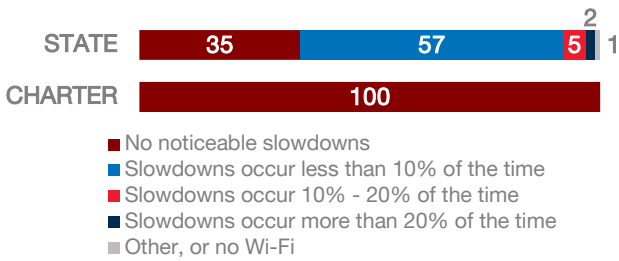
Area Population	N/A
Enrollment	545
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

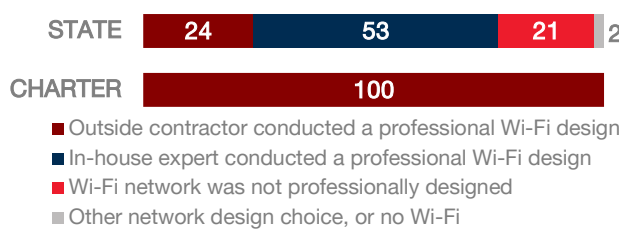
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

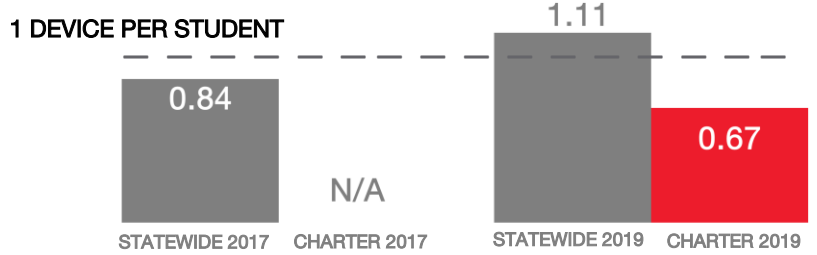
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

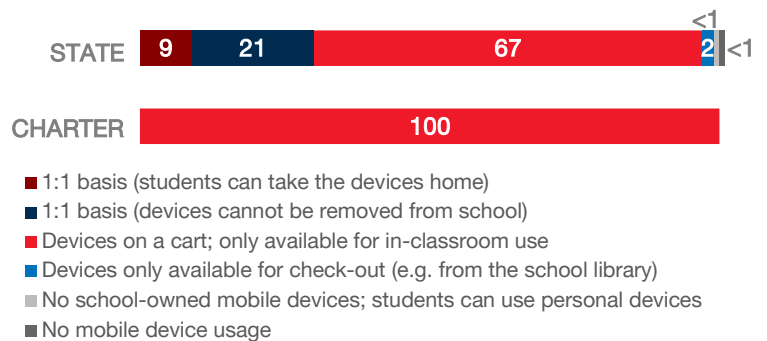


### COMPUTING DEVICES USED IN SCHOOLS

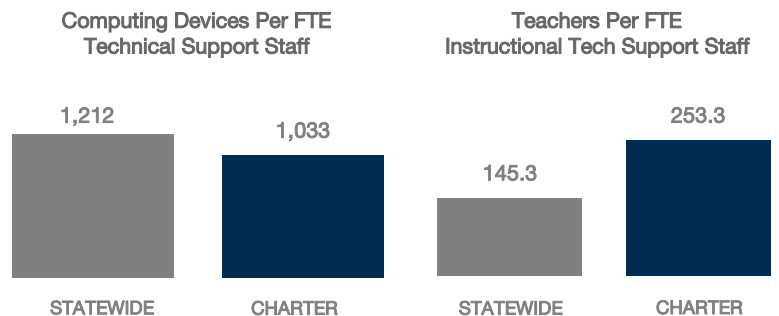
Device/OS	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	0	N/A
Laptops   Windows OS	0	33	33	N/A
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	360	25	385	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	4	4	8	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



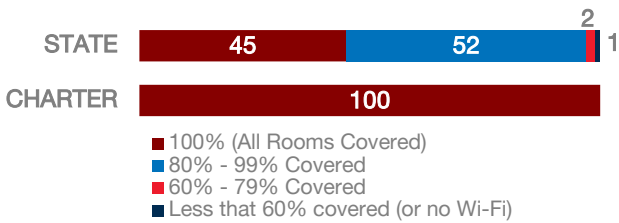
## Intech Collegiate High School

### CHARTER FACTS

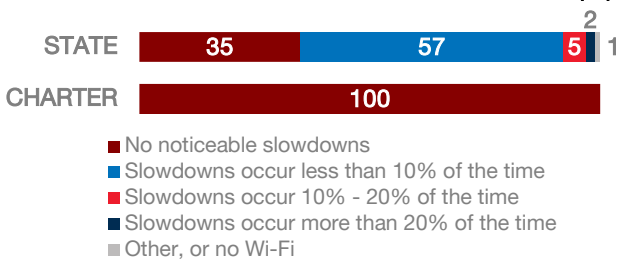
Area Population	N/A
Enrollment	158
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

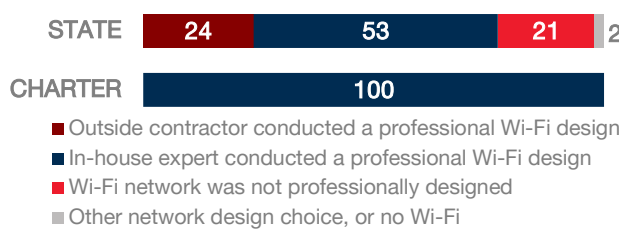
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

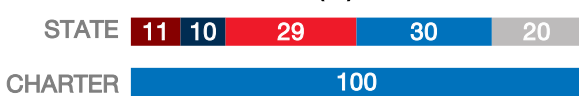


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

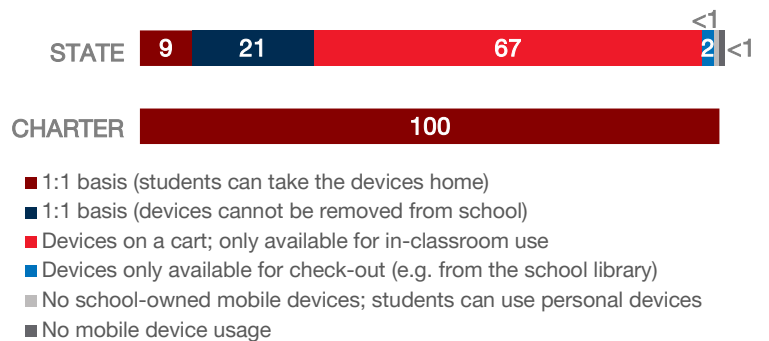


### COMPUTING DEVICES USED IN SCHOOLS

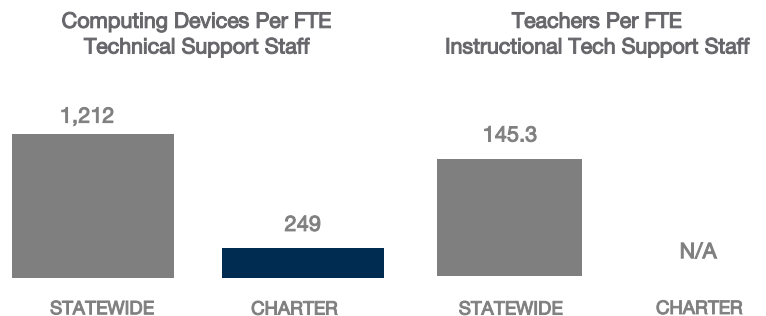
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	11	13	2	9%
Laptops   Windows OS	163	15	-15	-8%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	0	1	0	0%
Tablets   Windows	0	2	-1	-33%
Tablets   Android	0	0	-2	-100%
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





## Itineris Early College High School

### CHARTER FACTS

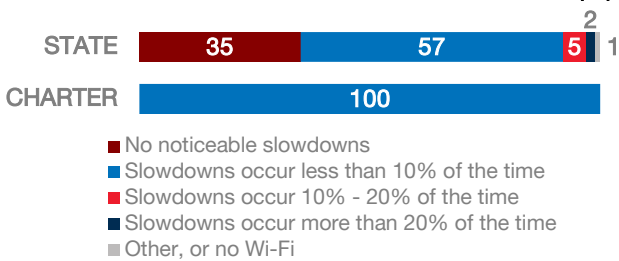
Area Population	N/A
Enrollment	414
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

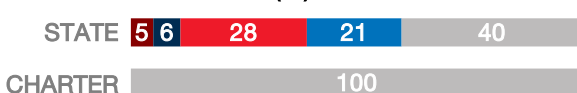


### NETWORK GEAR IN SCHOOLS

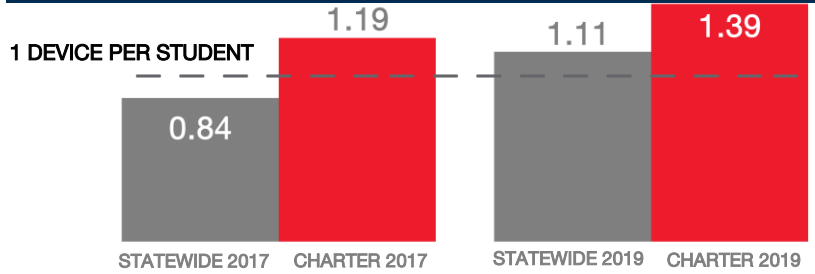
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

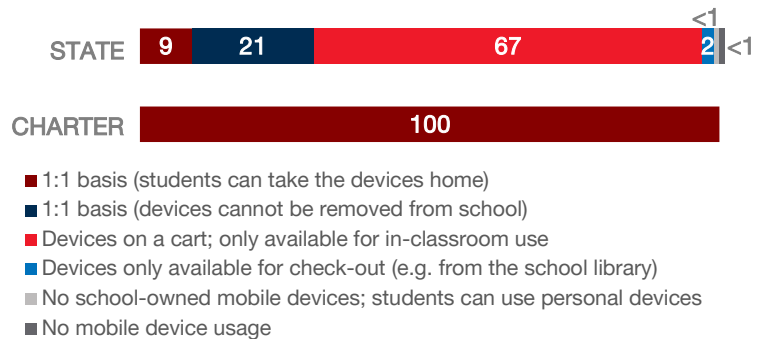


### COMPUTING DEVICES USED IN SCHOOLS

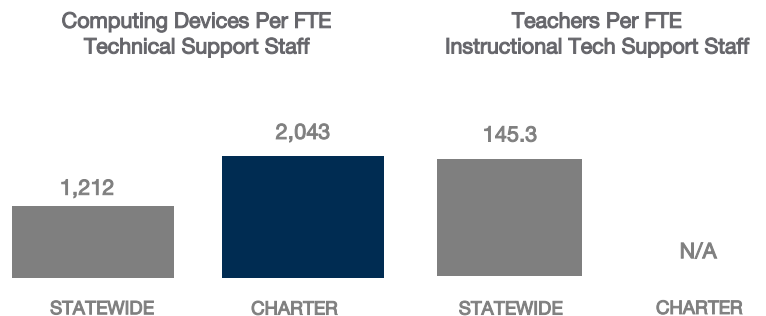
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	0	N/A
Laptops   Windows OS	75	2	76	7600%
Desktops   Mac	0	2	-10	-83%
Laptops   Mac	0	22	3	16%
Chromebooks   Google	500	0	15	3%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	12	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





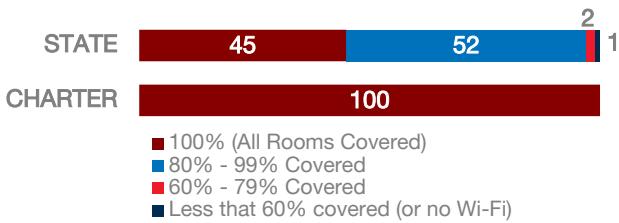
## Jefferson Academy

### CHARTER FACTS

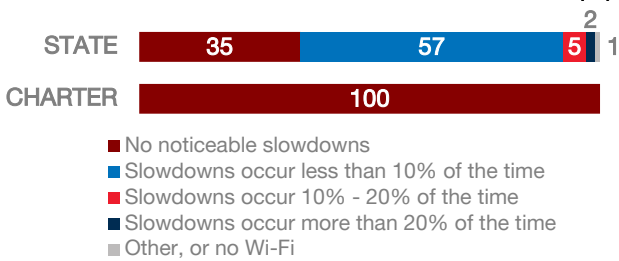
Area Population	N/A
Enrollment	580
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

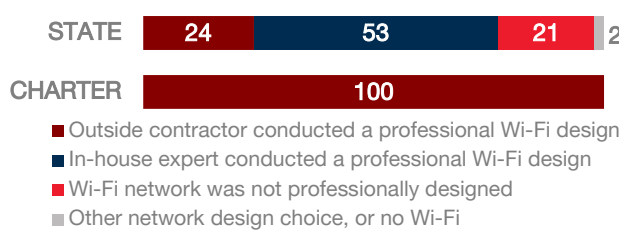
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

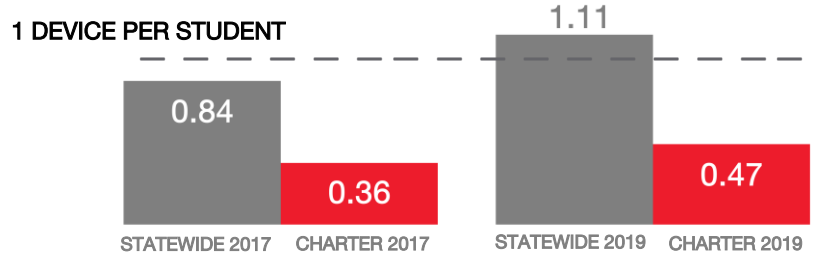
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

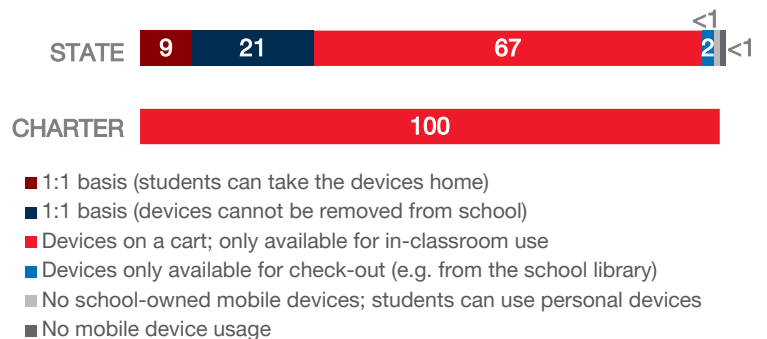


### COMPUTING DEVICES USED IN SCHOOLS

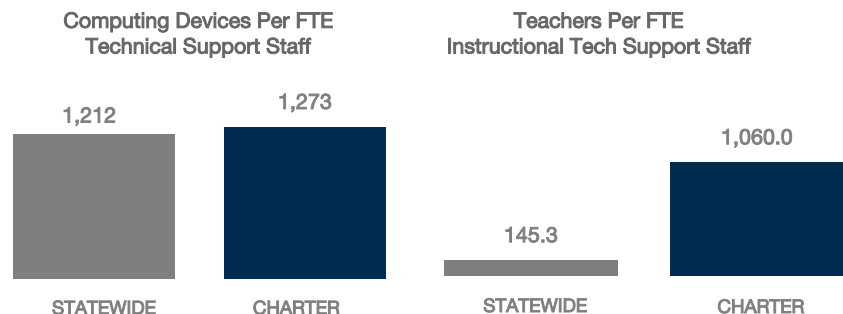
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	58	6	0	0%
Laptops   Windows OS	3	8	0	0%
Desktops   Mac	0	3	0	0%
Laptops   Mac	0	32	0	0%
Chromebooks   Google	210	0	60	40%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	30	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



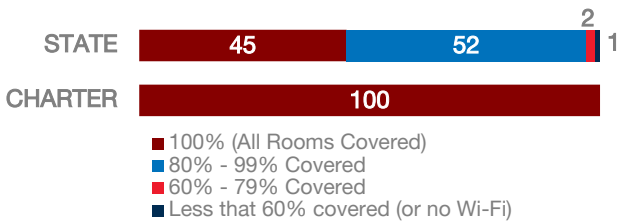
## John Hancock Charter School

### CHARTER FACTS

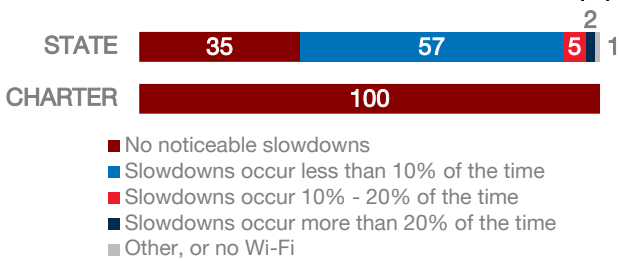
Area Population	N/A
Enrollment	159
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

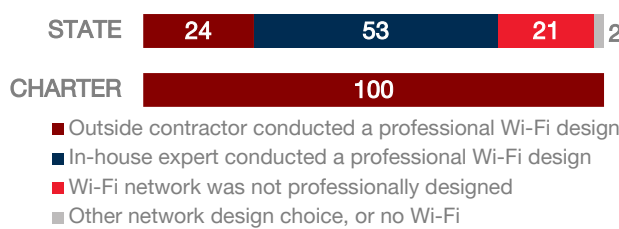
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

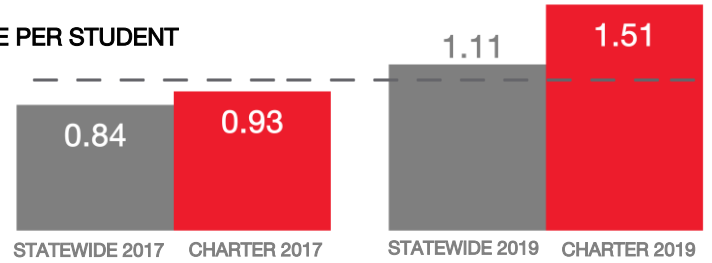


#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT

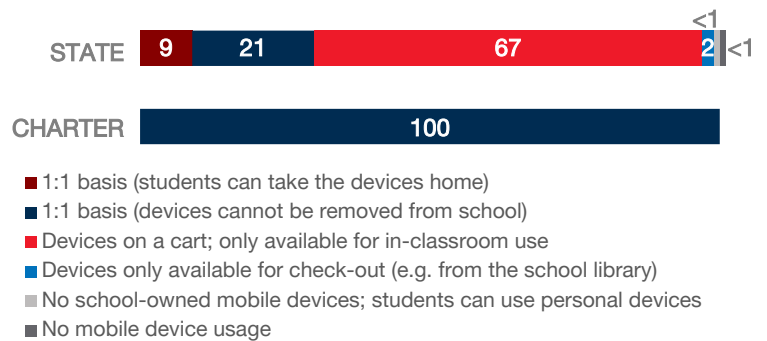


### COMPUTING DEVICES USED IN SCHOOLS

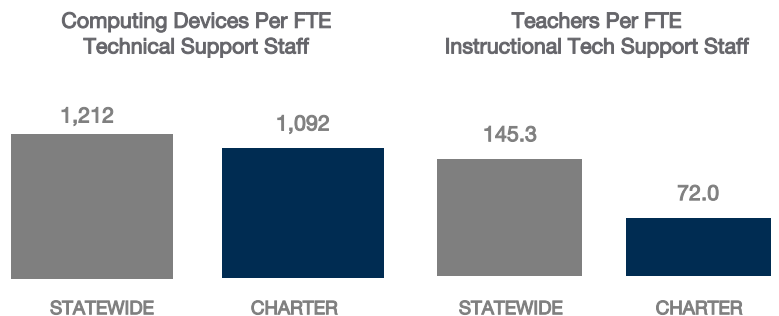
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	1	0	0%
Laptops   Windows OS	0	0	-1	-100%
Desktops   Mac	24	2	0	0%
Laptops   Mac	24	18	-6	-13%
Chromebooks   Google	144	0	72	100%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	48	12	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



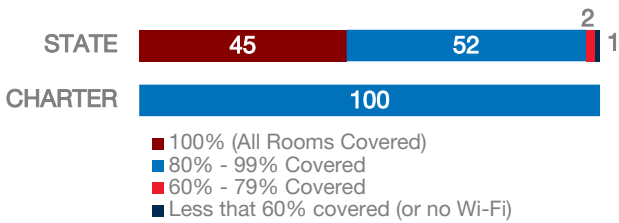
## Karl G Maeser Preparatory Academy

### CHARTER FACTS

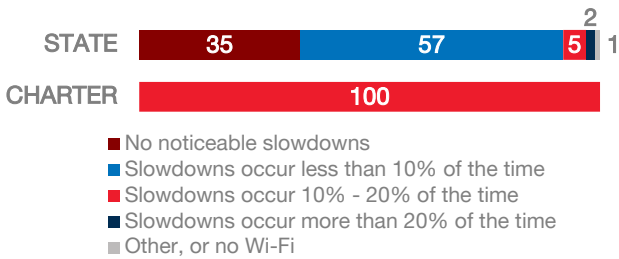
Area Population	N/A
Enrollment	640
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

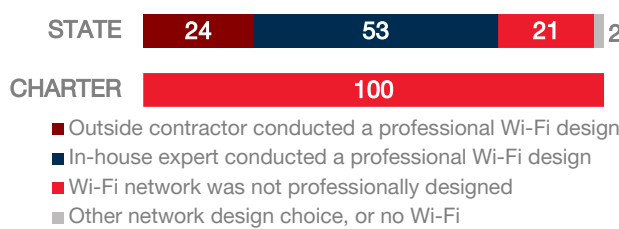
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

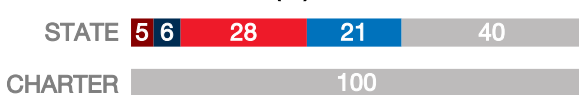


### NETWORK GEAR IN SCHOOLS

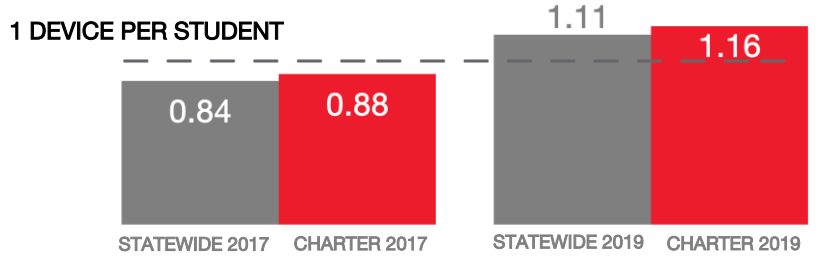
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

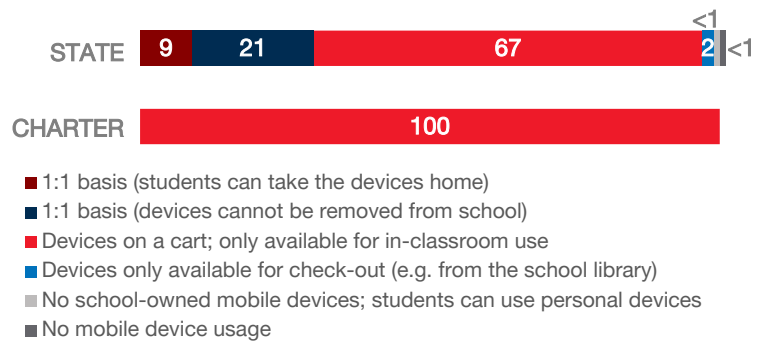


### COMPUTING DEVICES USED IN SCHOOLS

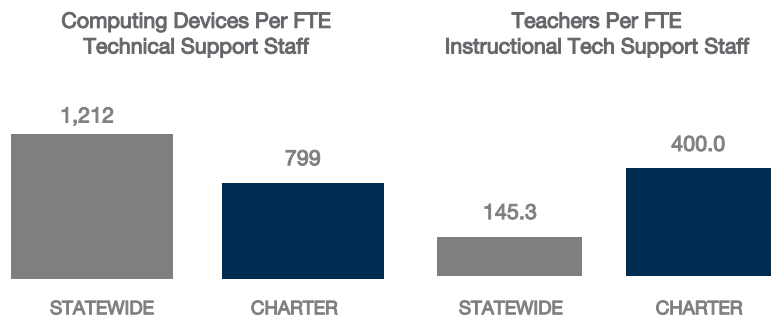
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	40	0	10	33%
Laptops   Windows OS	0	55	-30	-35%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	700	0	200	40%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	-2	-100%
Tablets   IOS	4	0	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



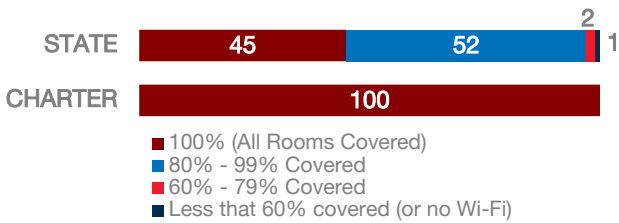
## Lakeview Academy

### CHARTER FACTS

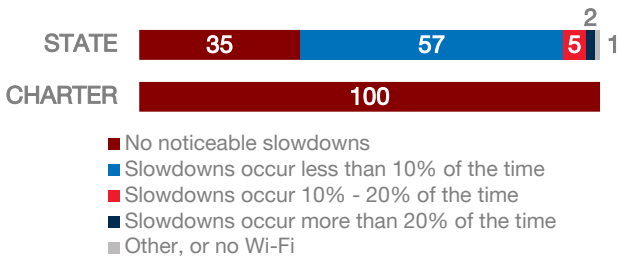
Area Population	N/A
Enrollment	1,000
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

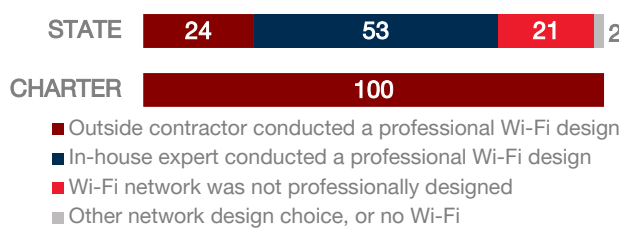
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

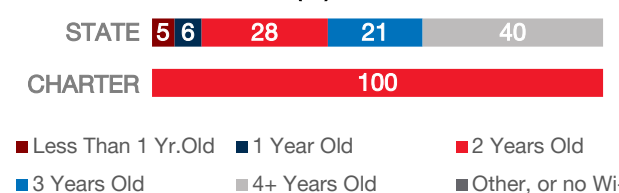


### NETWORK GEAR IN SCHOOLS

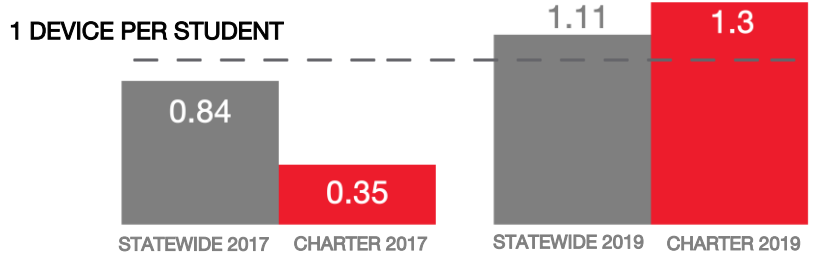
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

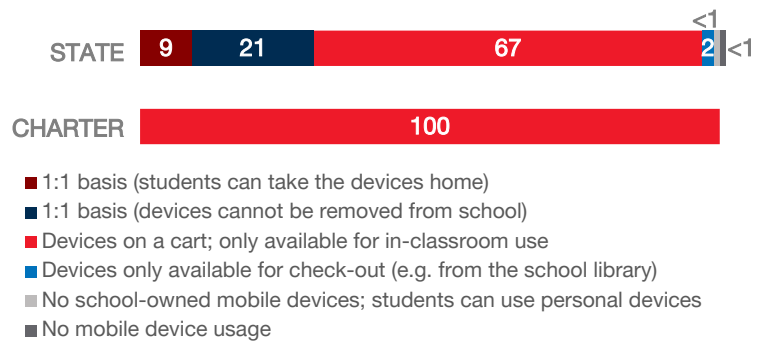


### COMPUTING DEVICES USED IN SCHOOLS

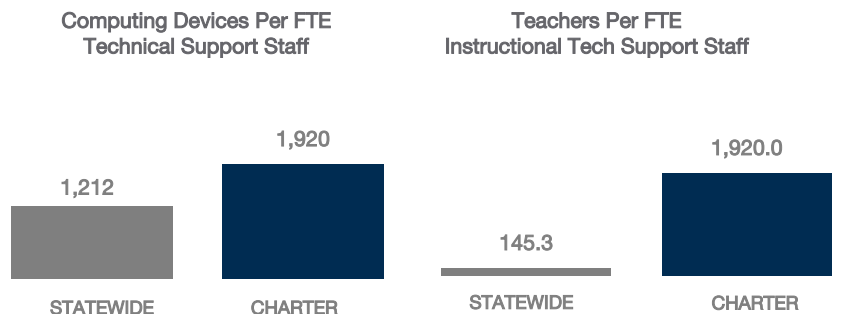
	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	50	20	0	0%
Laptops   Windows OS	0	100	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	900	0	700	350%
Tablets   Windows	0	0	0	N/A
Tablets   Android	50	0	0	0%
Tablets   IOS	300	20	-30	-9%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



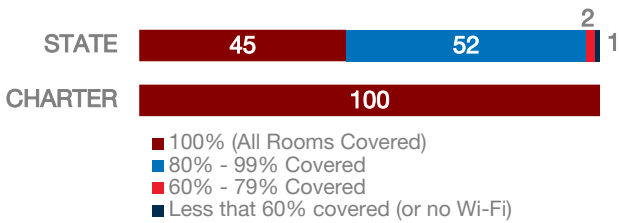
## Leadership Academy of Utah

### CHARTER FACTS

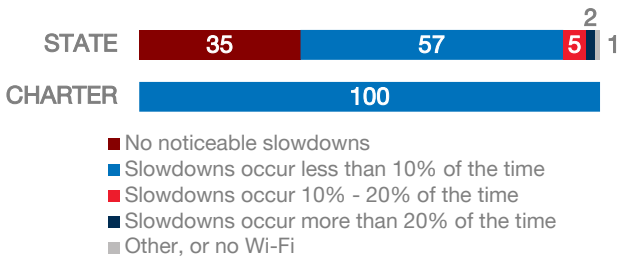
Area Population	N/A
Enrollment	503
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

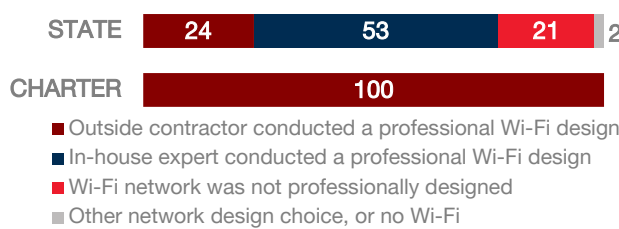
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

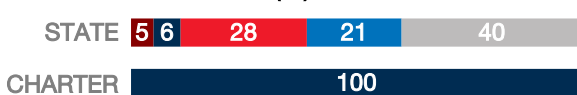


### NETWORK GEAR IN SCHOOLS

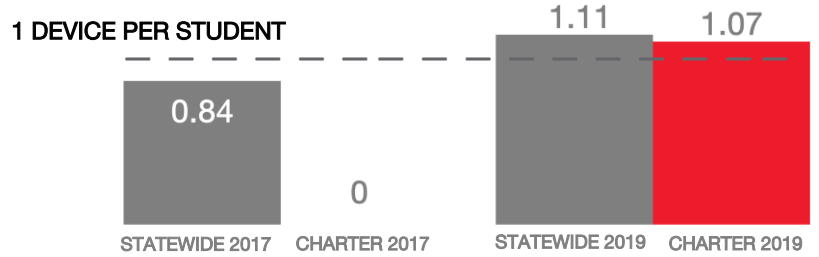
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

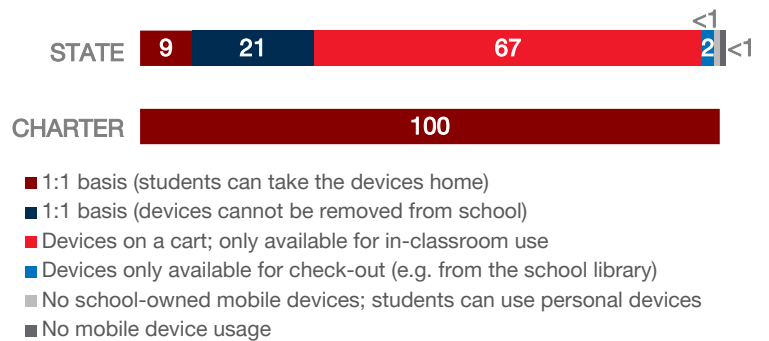


### COMPUTING DEVICES USED IN SCHOOLS

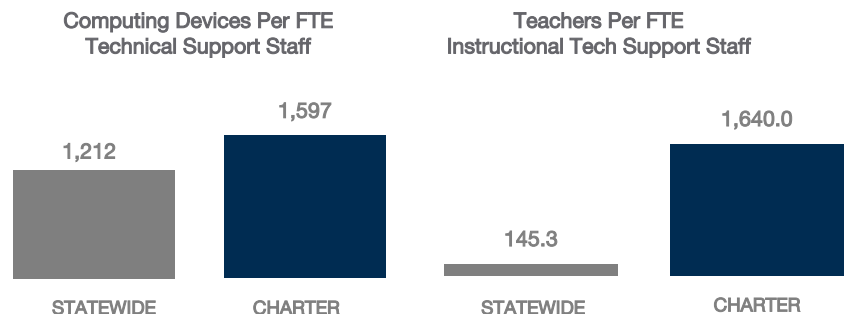
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	0	N/A
Laptops   Windows OS	290	10	300	N/A
Desktops   Mac	0	5	5	N/A
Laptops   Mac	0	4	4	N/A
Chromebooks   Google	250	0	250	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





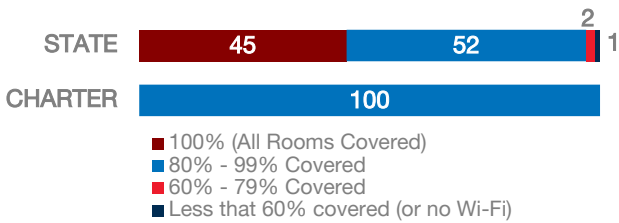
## Leadership Learning Academy

### CHARTER FACTS

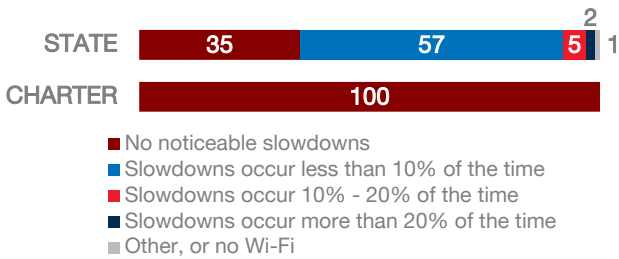
Area Population	N/A
Enrollment	879
Number of Schools	2
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

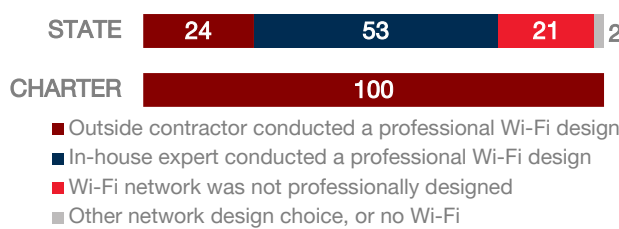
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

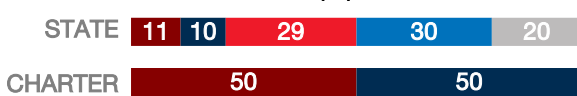


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

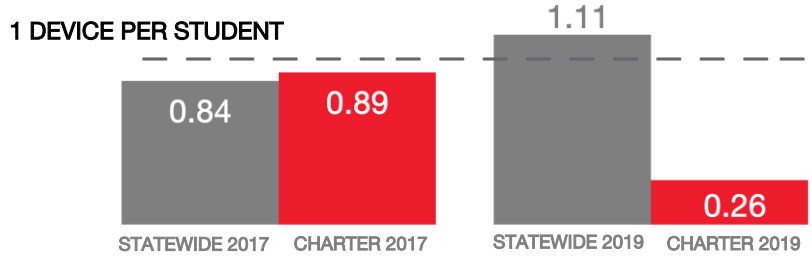
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

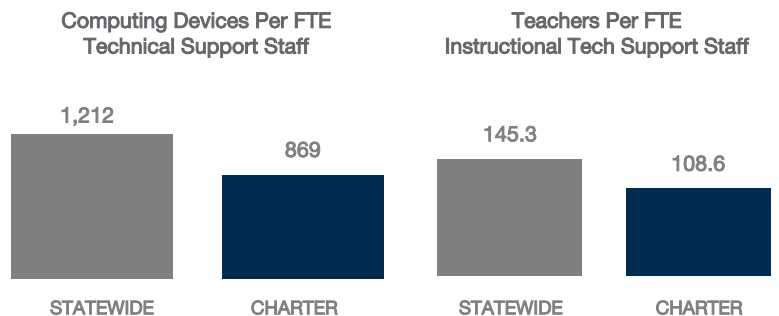
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	1	1	N/A
Laptops   Windows OS	230	52	143	103%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	3	3	N/A
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	18	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





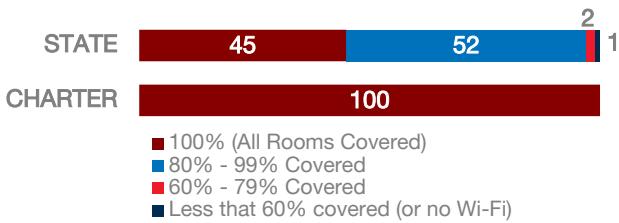
## Legacy Preparatory Academy

### CHARTER FACTS

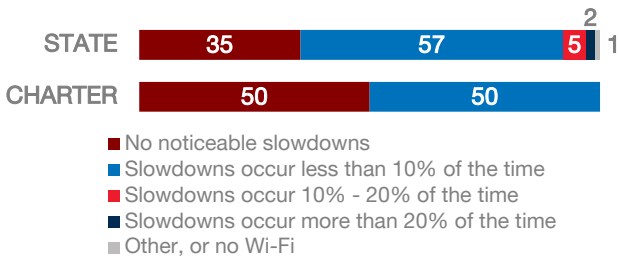
Area Population	N/A
Enrollment	1,119
Number of Schools	2
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

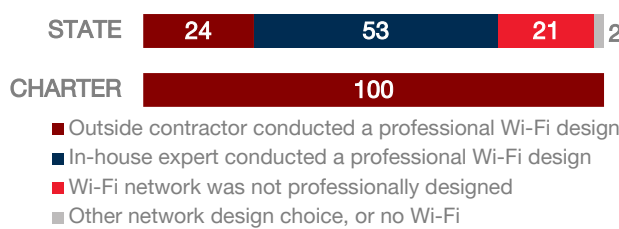
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

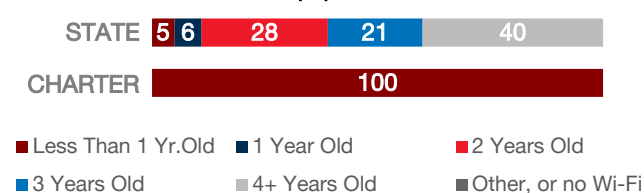


### NETWORK GEAR IN SCHOOLS

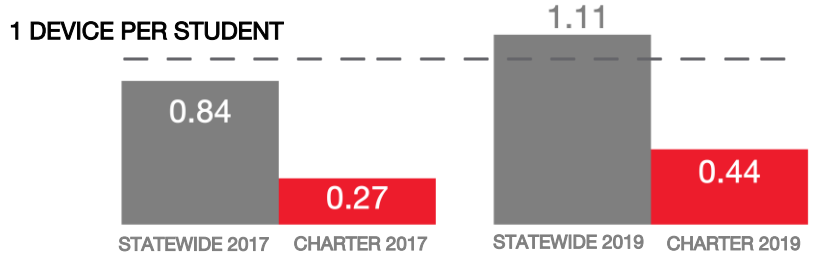
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

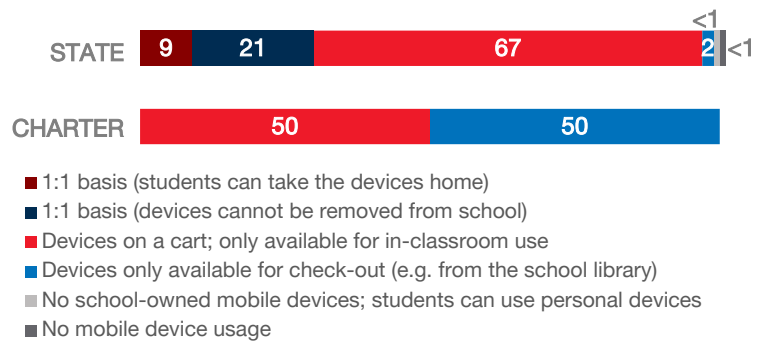


### COMPUTING DEVICES USED IN SCHOOLS

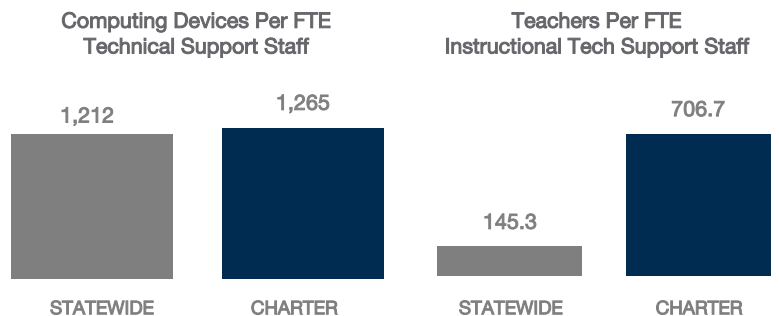
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	179	75	117	85%
Laptops   Windows OS	49	70	77	183%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	240	0	60	33%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	18	0	0%
Tablets   IOS	28	5	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



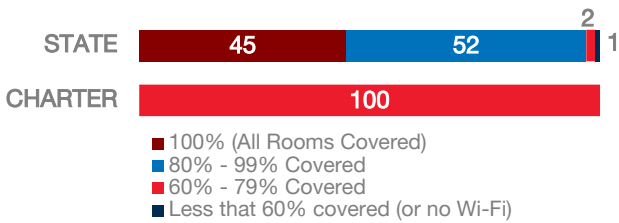
## Lincoln Academy

### CHARTER FACTS

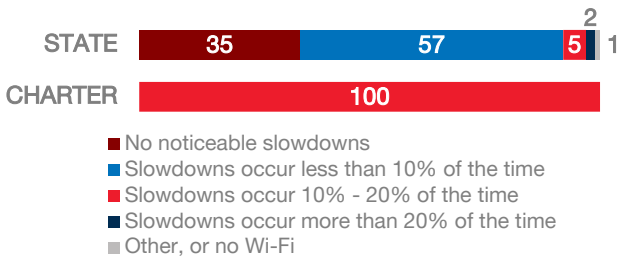
Area Population	N/A
Enrollment	862
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

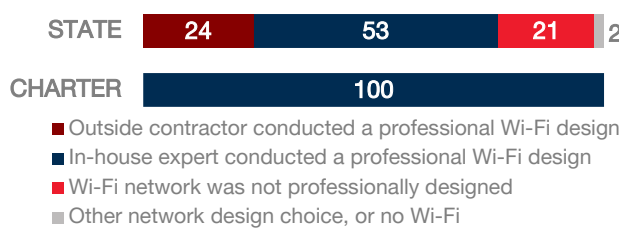
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

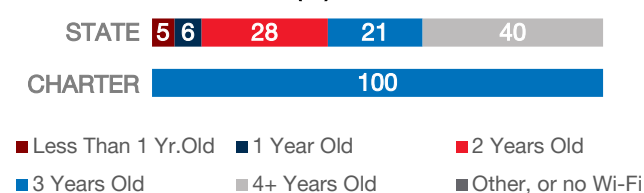


### NETWORK GEAR IN SCHOOLS

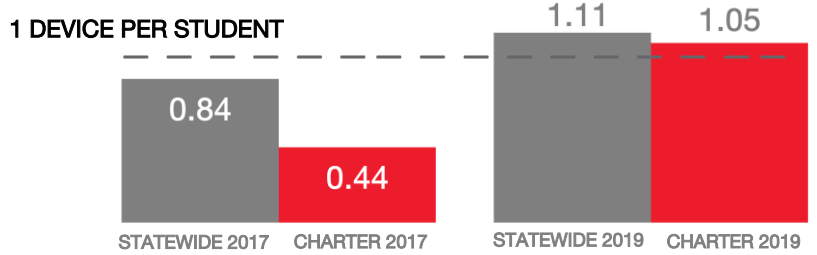
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

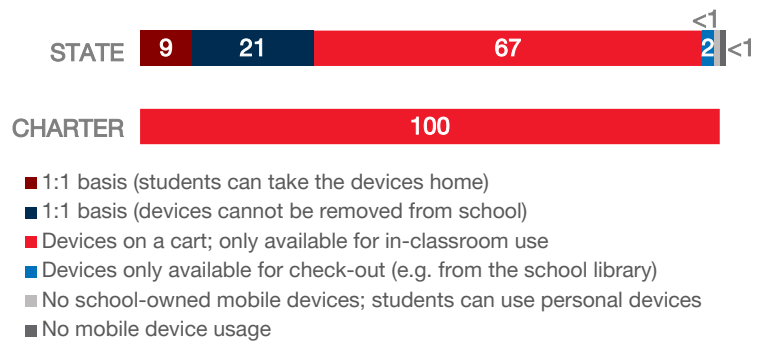


### COMPUTING DEVICES USED IN SCHOOLS

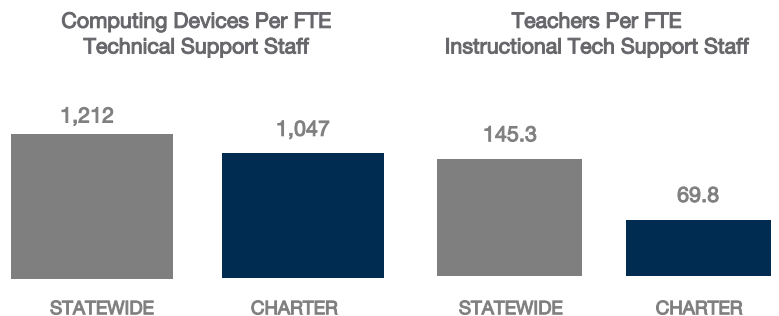
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	0	N/A
Laptops   Windows OS	0	2	0	0%
Desktops   Mac	106	24	0	0%
Laptops   Mac	6	77	0	0%
Chromebooks   Google	732	5	527	251%
Tablets   Windows	0	0	0	N/A
Tablets   Android	3	0	0	0%
Tablets   IOS	60	58	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



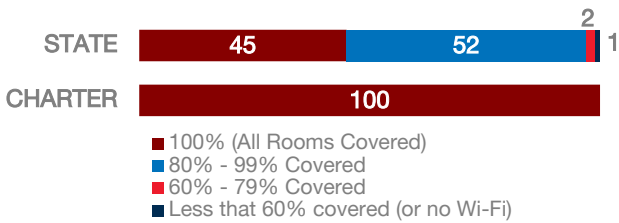
## Lumen Scholar

### CHARTER FACTS

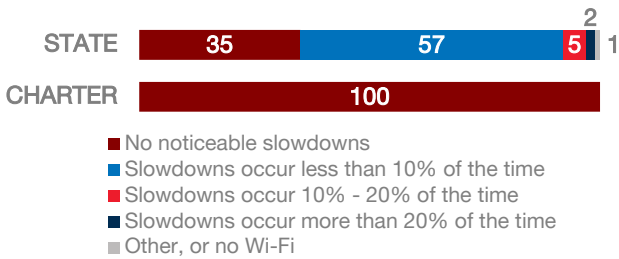
Area Population	N/A
Enrollment	345
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

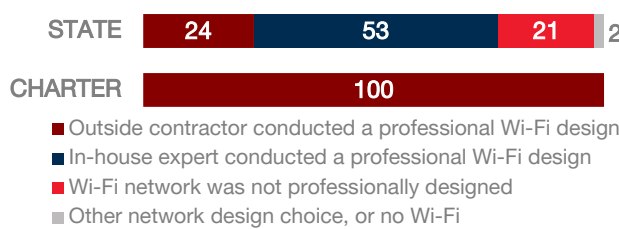
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

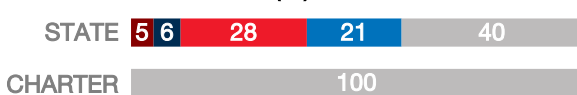


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

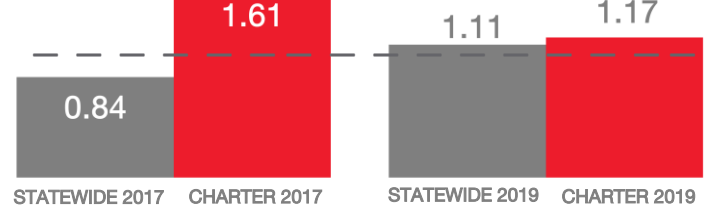


#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT

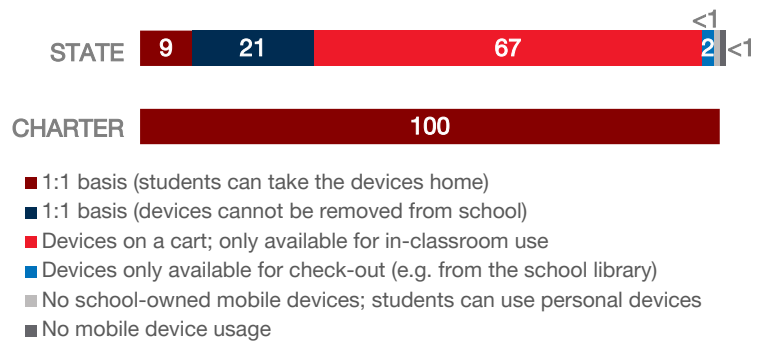


### COMPUTING DEVICES USED IN SCHOOLS

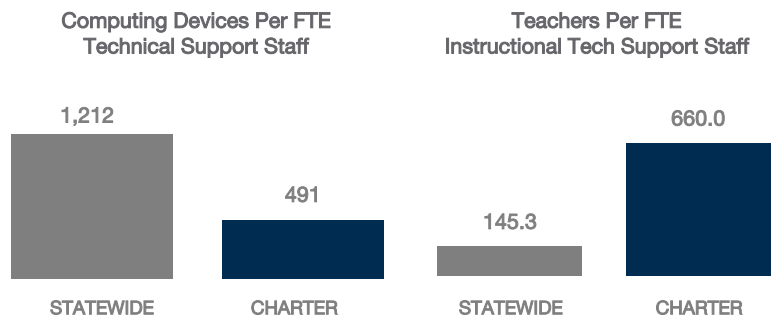
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	2	-28	-93%
Laptops   Windows OS	181	6	-238	-56%
Desktops   Mac	0	3	-28	-90%
Laptops   Mac	17	7	-35	-59%
Chromebooks   Google	90	2	-108	-54%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	116	6	-37	-23%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



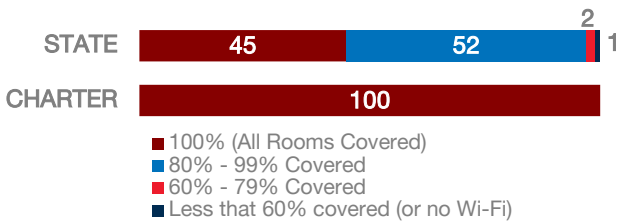
## Mana Academy Charter School

### CHARTER FACTS

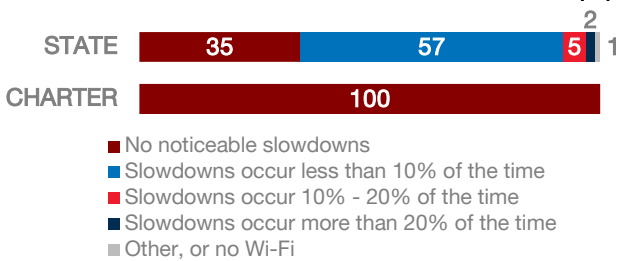
Area Population	N/A
Enrollment	218
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

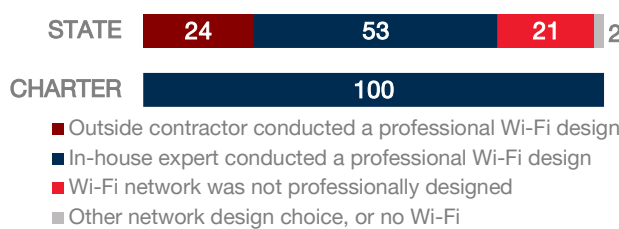
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

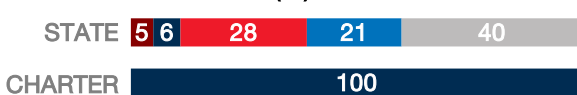


### NETWORK GEAR IN SCHOOLS

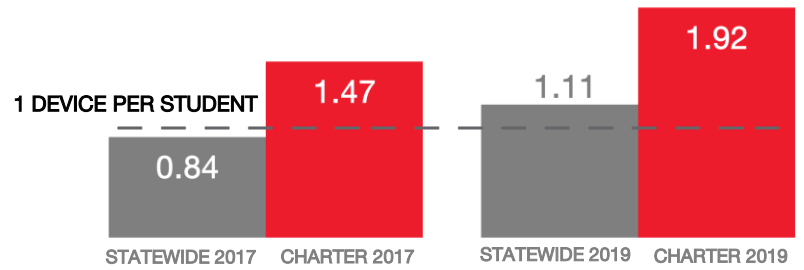
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

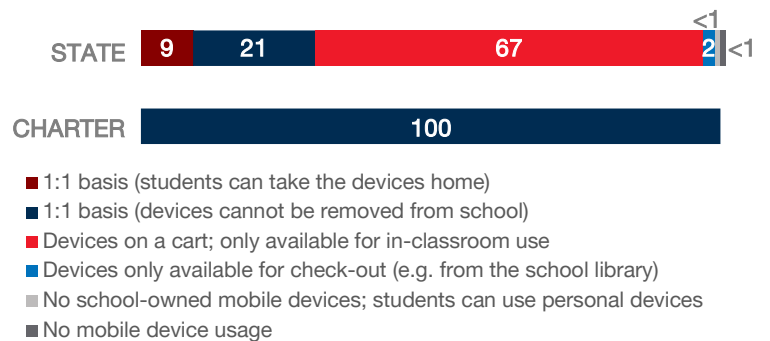


### COMPUTING DEVICES USED IN SCHOOLS

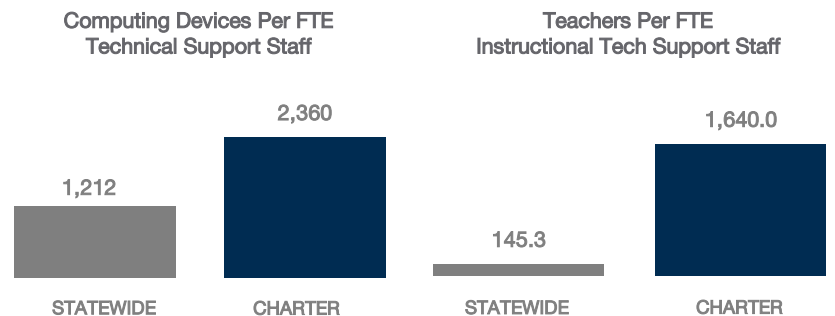
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	5	8	-2	-13%
Laptops   Windows OS	0	20	2	11%
Desktops   Mac	0	1	-1	-50%
Laptops   Mac	0	4	2	100%
Chromebooks   Google	402	20	-83	-16%
Tablets   Windows	0	0	0	N/A
Tablets   Android	7	0	0	0%
Tablets   IOS	5	0	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



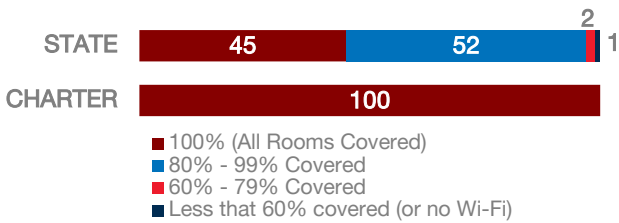
## Maria Montessori Academy

### CHARTER FACTS

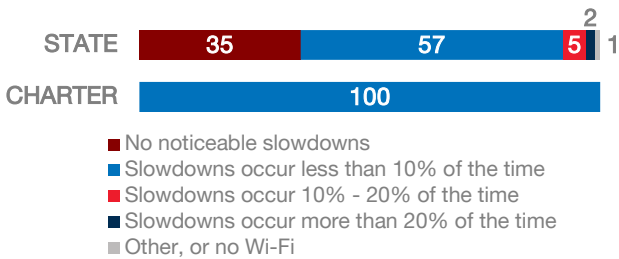
Area Population	N/A
Enrollment	638
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

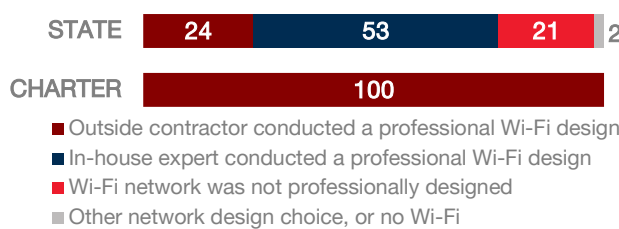
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

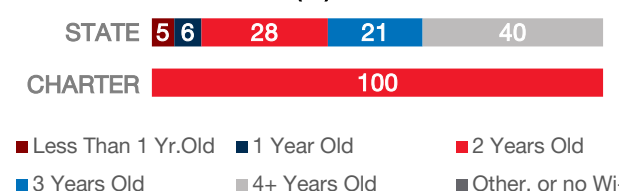


### NETWORK GEAR IN SCHOOLS

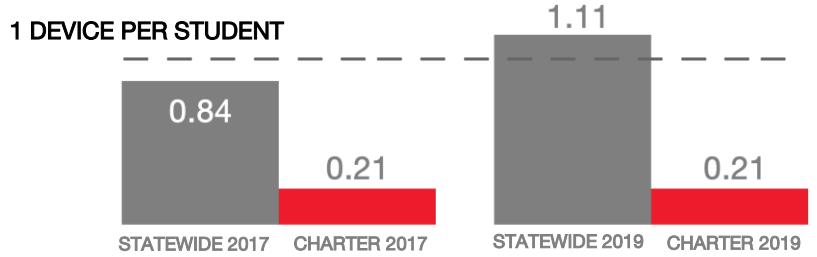
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

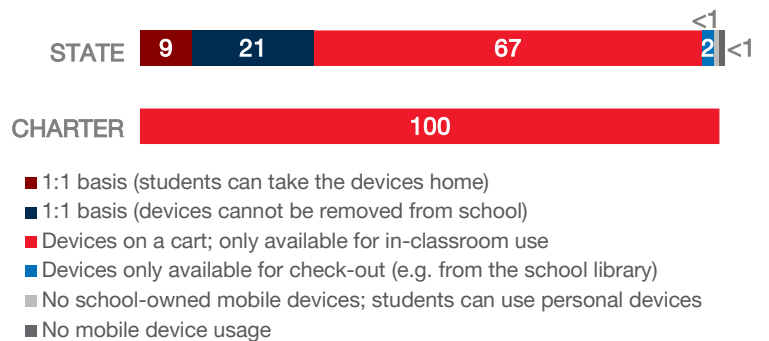


### COMPUTING DEVICES USED IN SCHOOLS

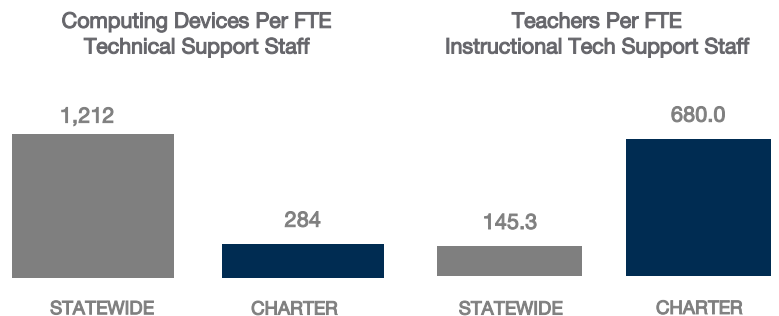
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	25	2	0	0%
Laptops   Windows OS	78	50	0	0%
Desktops   Mac	30	1	0	0%
Laptops   Mac	0	5	0	0%
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	4	18	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





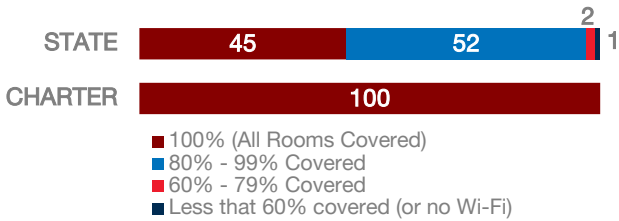
## Merit College Preparatory Academy

### CHARTER FACTS

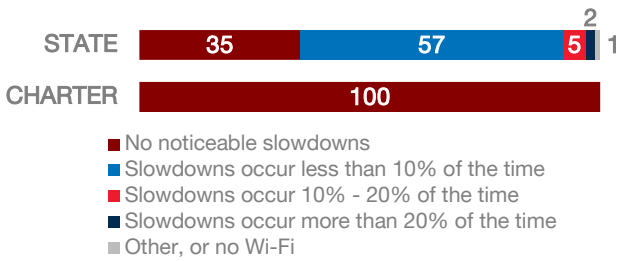
Area Population	N/A
Enrollment	450
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

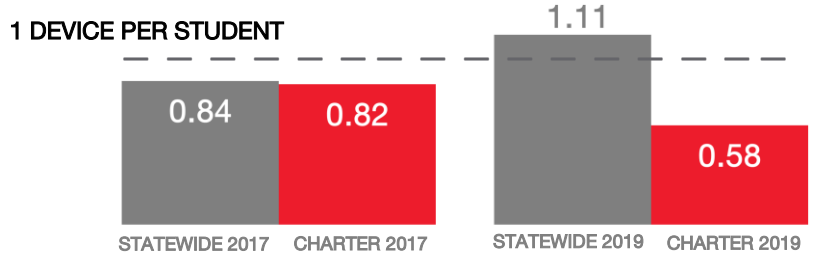
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

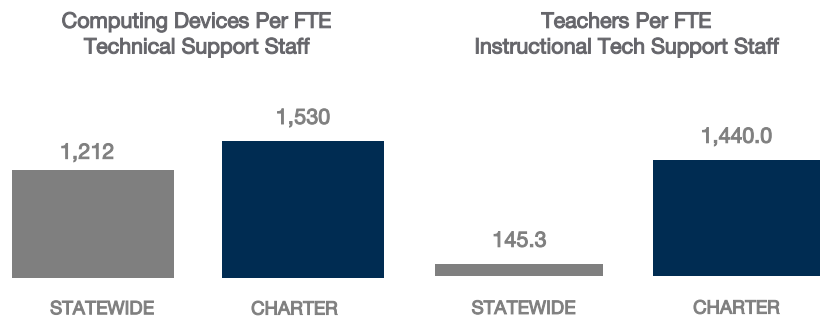
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	55	6	0	0%
Laptops   Windows OS	0	40	11	38%
Desktops   Mac	0	0	-1	-100%
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	200	0	0	0%
Tablets   Windows	0	0	0	N/A
Tablets   Android	5	0	0	0%
Tablets   IOS	0	0	-75	-100%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





## Moab Charter School

### CHARTER FACTS

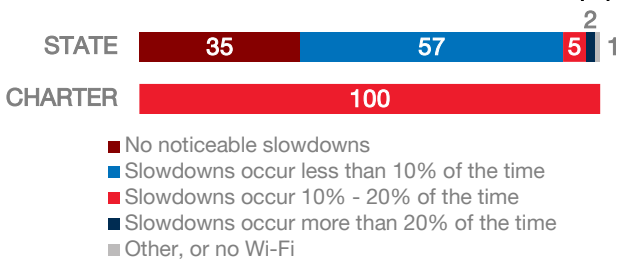
Area Population	N/A
Enrollment	78
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

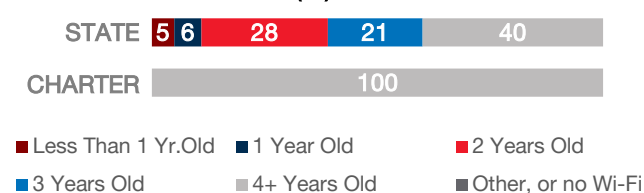


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

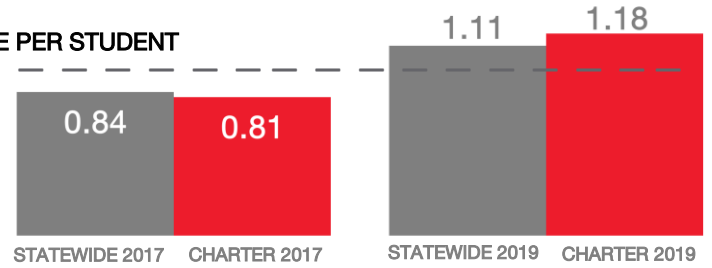


#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT

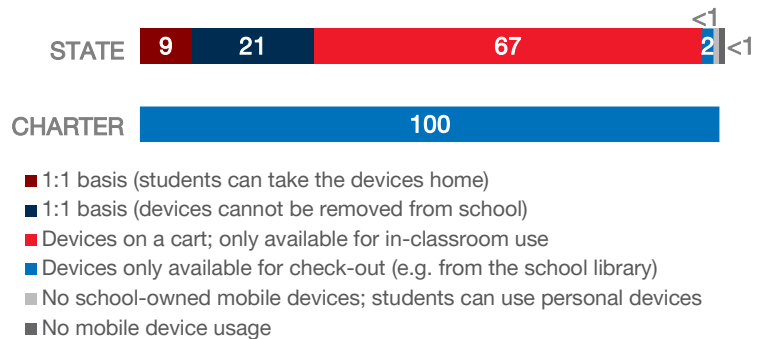


### COMPUTING DEVICES USED IN SCHOOLS

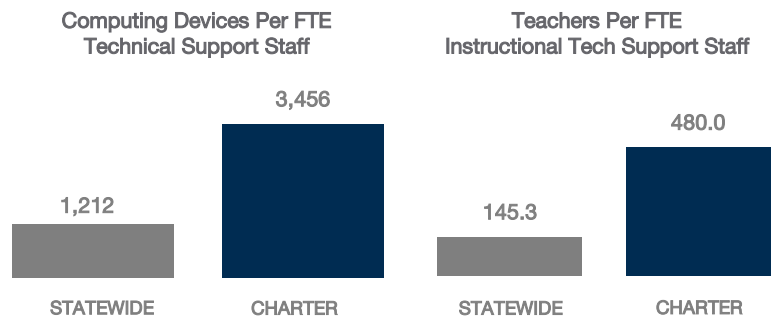
	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	1	-40	-98%
Laptops   Windows OS	0	8	-17	-68%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	2	0	0%
Chromebooks   Google	77	0	52	208%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	5	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



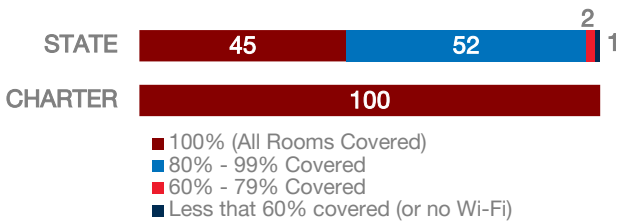
## Monticello Academy

### CHARTER FACTS

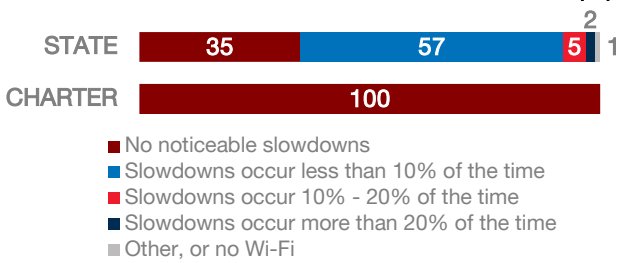
Area Population	N/A
Enrollment	663
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

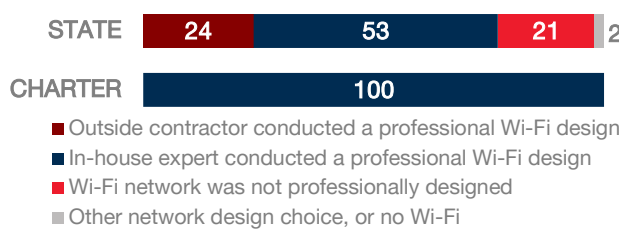
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

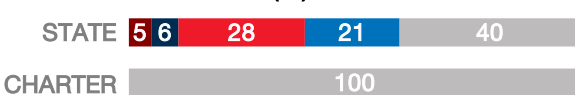


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



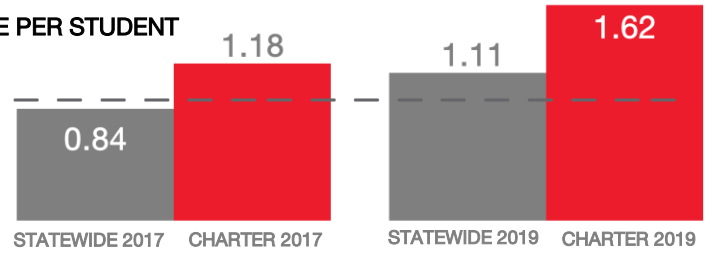
#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr. Old   ■ 1 Year Old   ■ 2 Years Old  
■ 3 Years Old   ■ 4+ Years Old   ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT

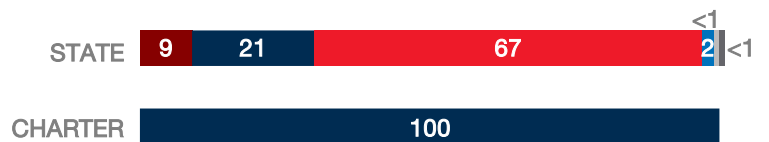


### COMPUTING DEVICES USED IN SCHOOLS

	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	78	2	0	0%
Laptops   Windows OS	0	45	-15	-25%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	1	0	0%
Chromebooks   Google	853	10	233	37%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	-90	-100%
Tablets   IOS	140	10	-5	-3%

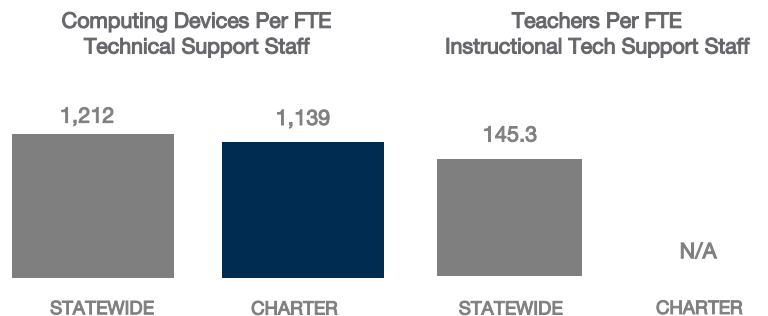
### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



- 1:1 basis (students can take the devices home)
- 1:1 basis (devices cannot be removed from school)
- Devices on a cart; only available for in-classroom use
- Devices only available for check-out (e.g. from the school library)
- No school-owned mobile devices; students can use personal devices
- No mobile device usage

### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



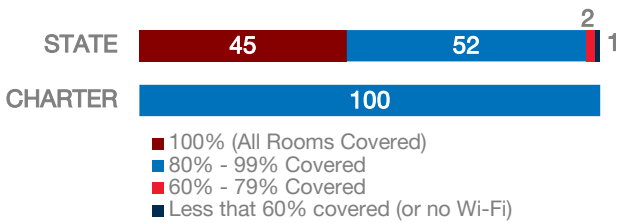
## Mountain Heights Academy

### CHARTER FACTS

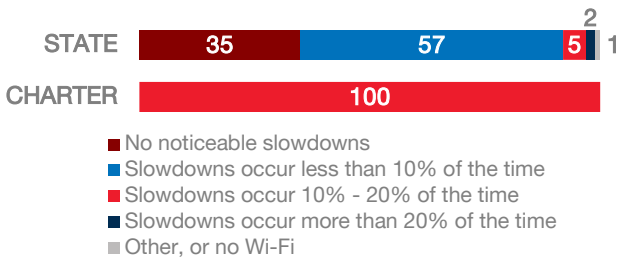
Area Population	N/A
Enrollment	834
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

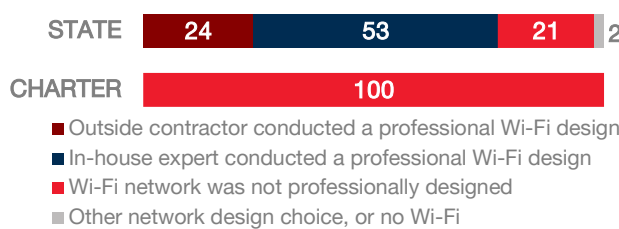
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

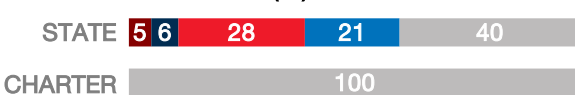


### NETWORK GEAR IN SCHOOLS

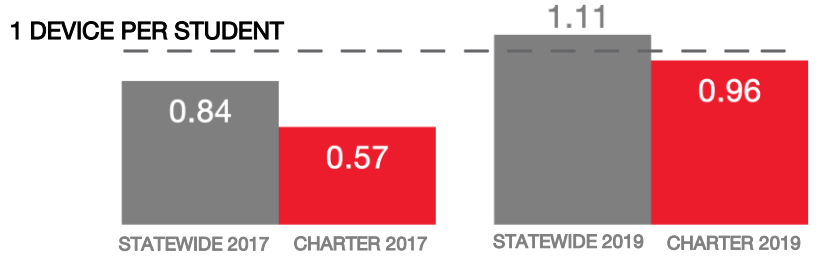
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

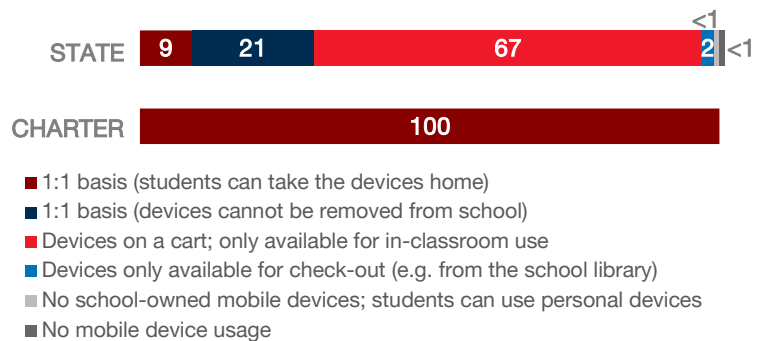


### COMPUTING DEVICES USED IN SCHOOLS

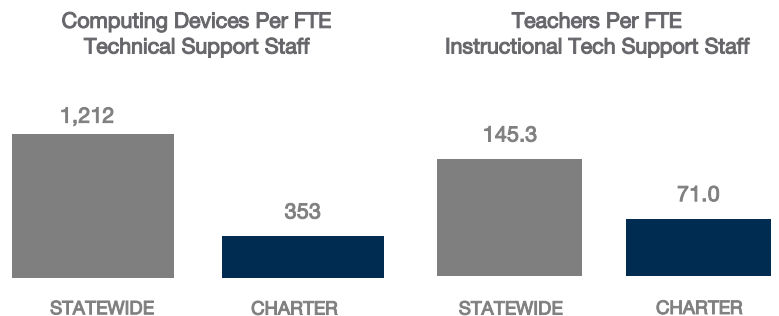
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	7	2	40%
Laptops   Windows OS	0	0	-440	-100%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	-5	-100%
Chromebooks   Google	800	75	830	1844%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



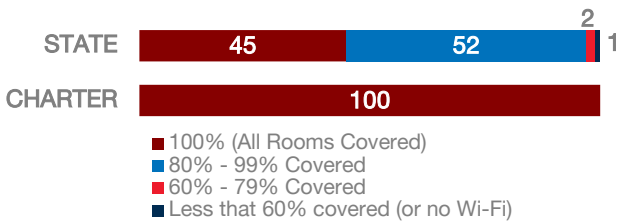
## Mountain West Montessori Academy

### CHARTER FACTS

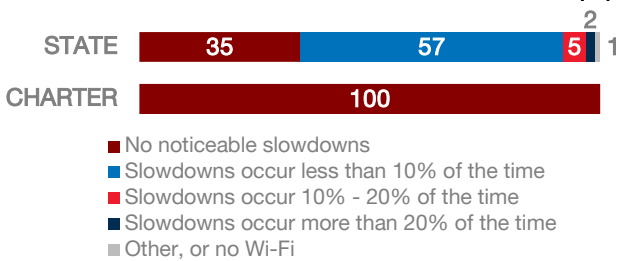
Area Population	N/A
Enrollment	503
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

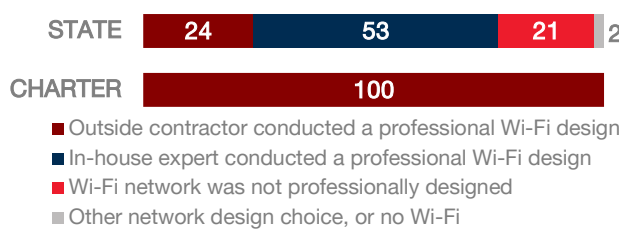
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

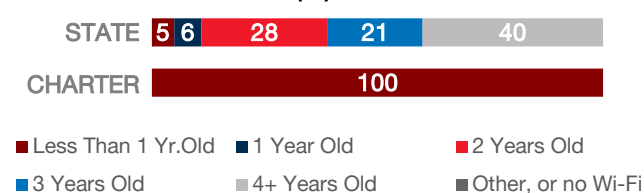


### NETWORK GEAR IN SCHOOLS

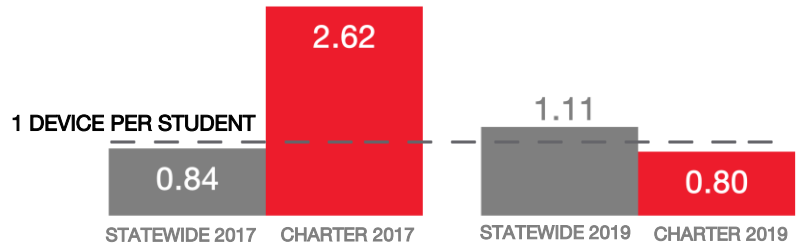
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

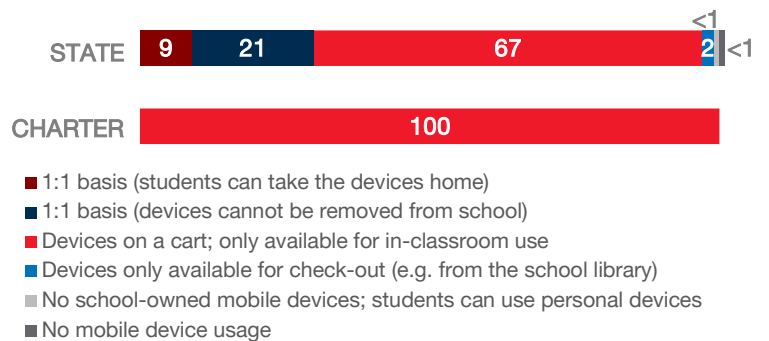


### COMPUTING DEVICES USED IN SCHOOLS

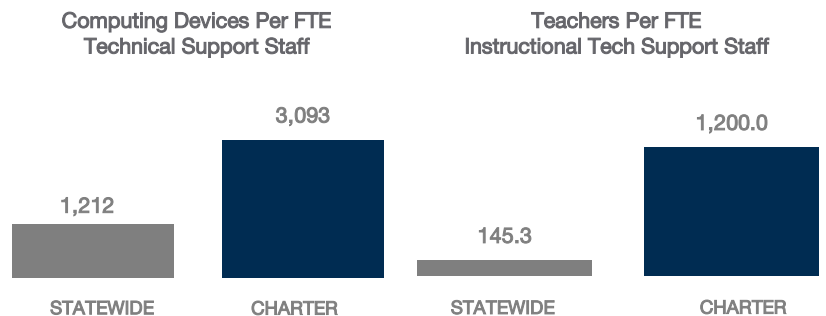
	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	20	0	0	0%
Laptops   Windows OS	30	33	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	340	0	68	25%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	13	28	13	46%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



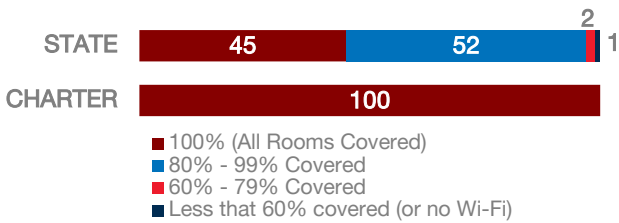
## Mountainville Academy

### CHARTER FACTS

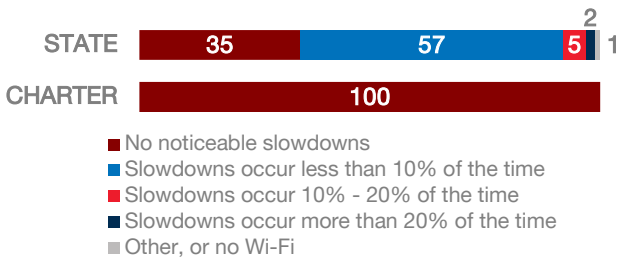
Area Population	N/A
Enrollment	658
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

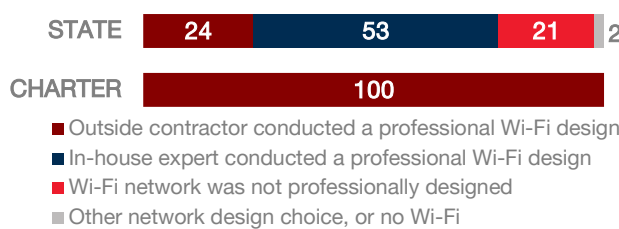
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

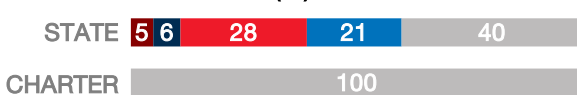


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

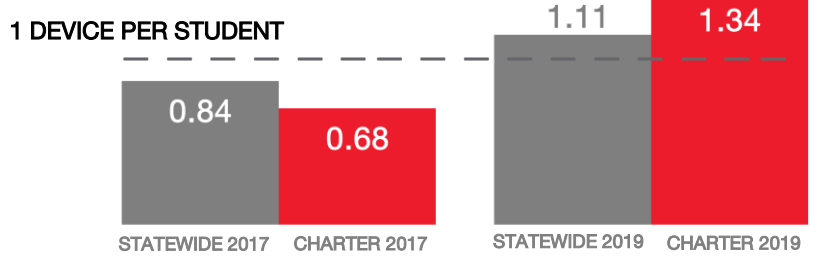


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr. Old ■ 1 Year Old ■ 2 Years Old  
■ 3 Years Old ■ 4+ Years Old ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

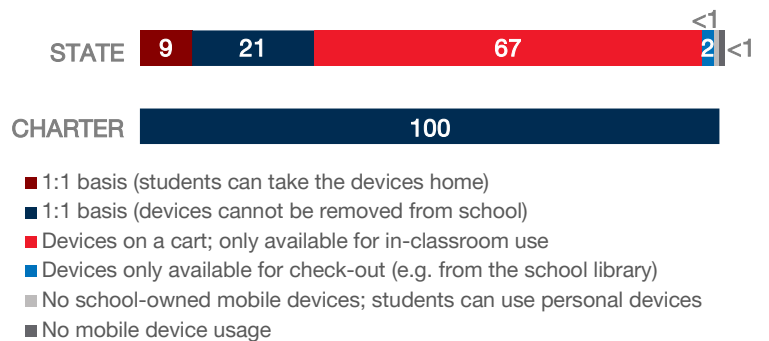


### COMPUTING DEVICES USED IN SCHOOLS

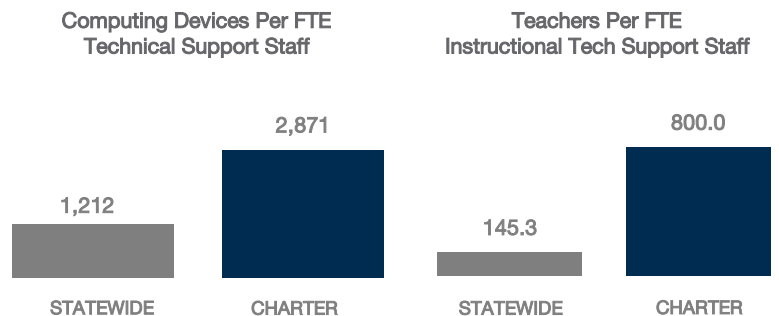
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	30	5	-55	-61%
Laptops   Windows OS	0	60	-30	-33%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	780	0	390	100%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	70	60	72	124%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





## Navigator Pointe Academy

### CHARTER FACTS

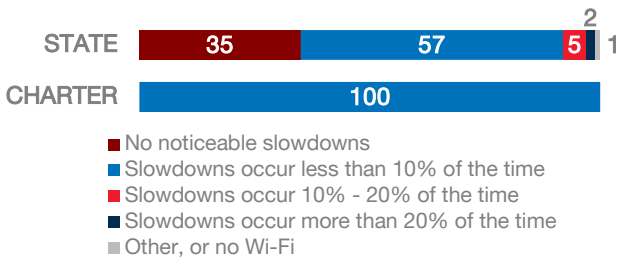
Area Population	N/A
Enrollment	455
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

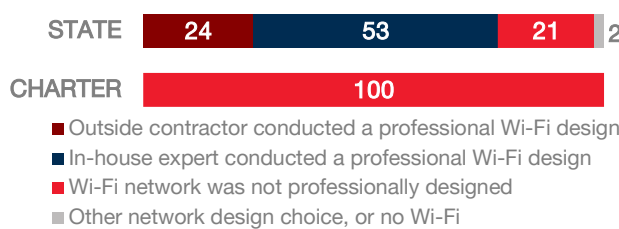
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

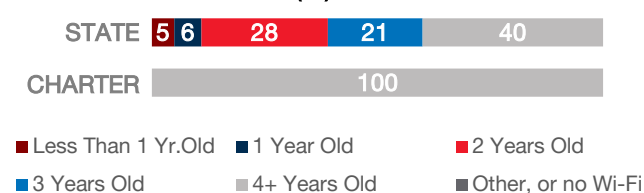


### NETWORK GEAR IN SCHOOLS

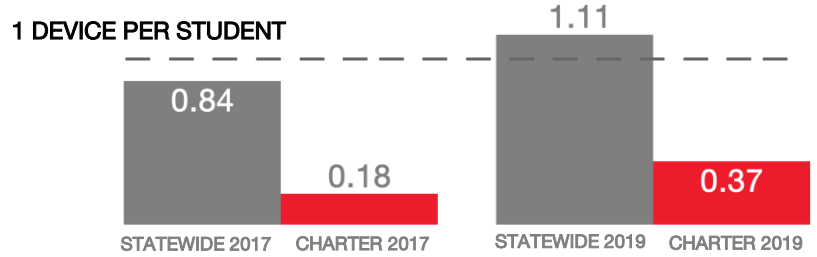
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

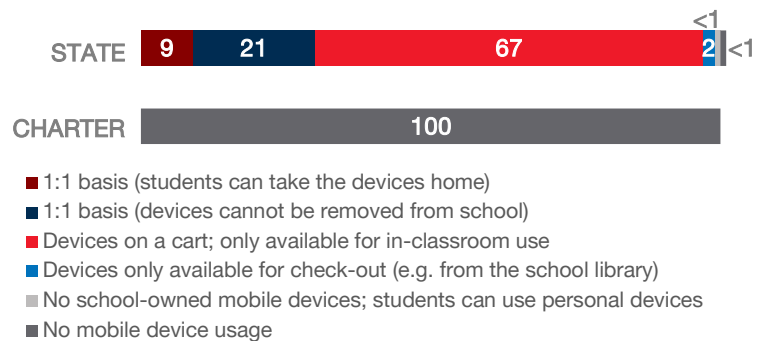


### COMPUTING DEVICES USED IN SCHOOLS

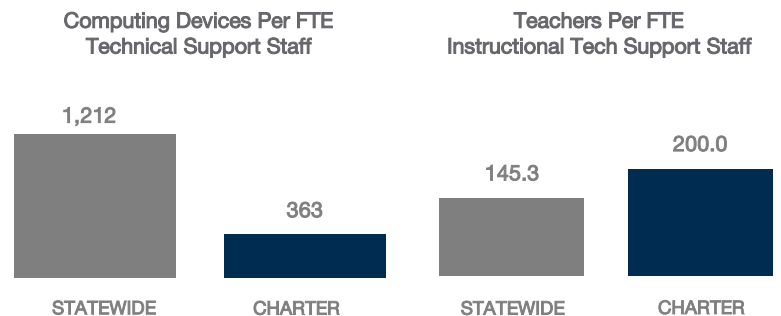
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	1	-3	-75%
Laptops   Windows OS	134	47	56	45%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	1	0	0%
Chromebooks   Google	32	0	32	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	1	2	1	50%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





## Noah Webster Academy

### CHARTER FACTS

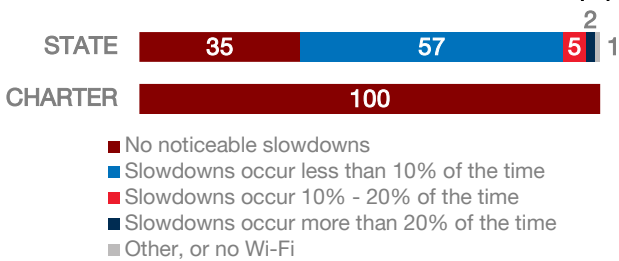
Area Population	N/A
Enrollment	524
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

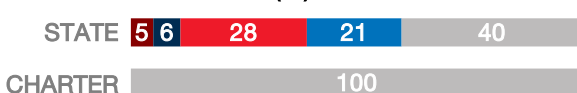


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

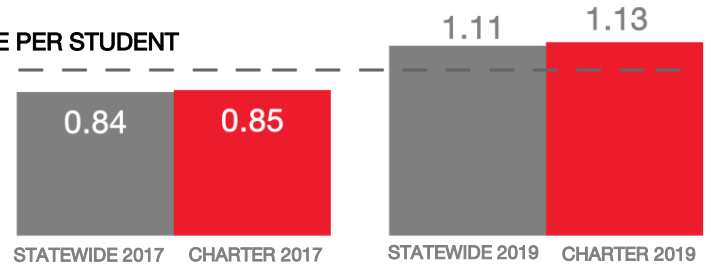


#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT

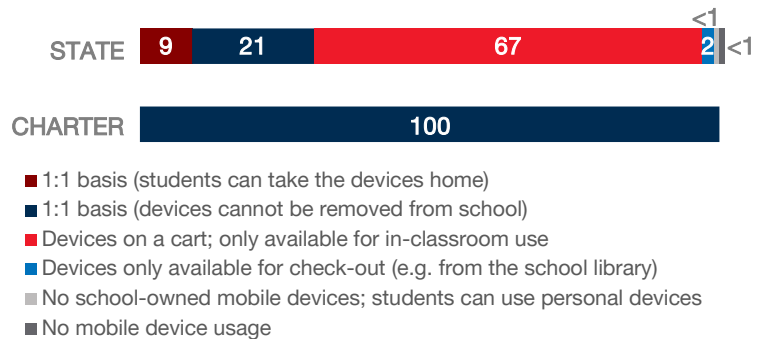


### COMPUTING DEVICES USED IN SCHOOLS

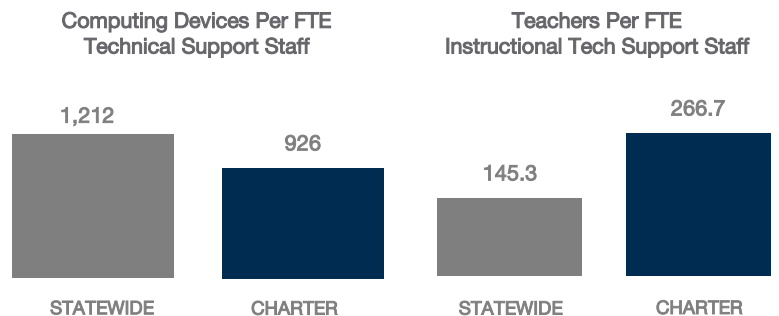
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	28	-17	-38%
Laptops   Windows OS	0	7	-1	-13%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	540	0	90	20%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	50	0	25	100%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



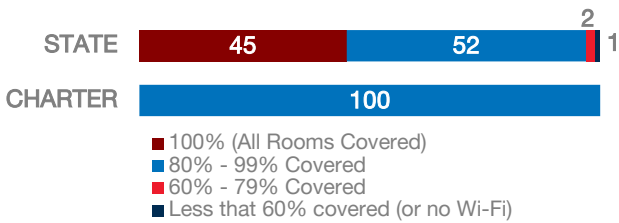
## North Davis Preparatory Academy

### CHARTER FACTS

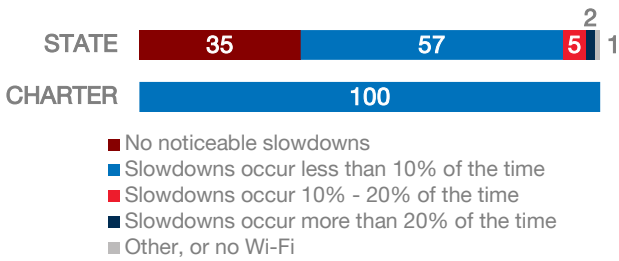
Area Population	N/A
Enrollment	1,019
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

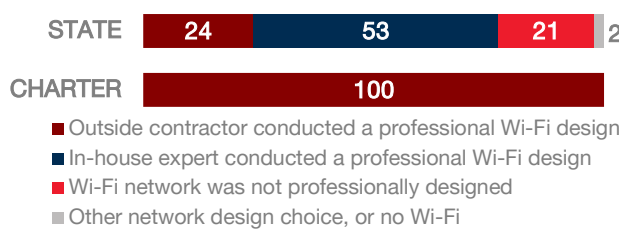
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

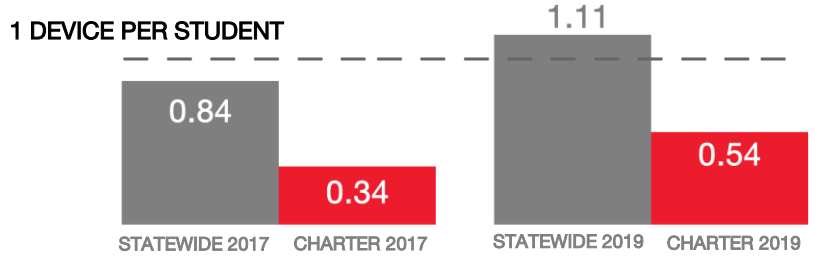
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

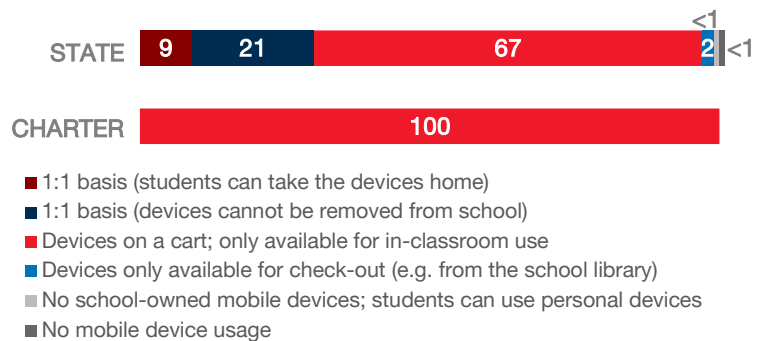


### COMPUTING DEVICES USED IN SCHOOLS

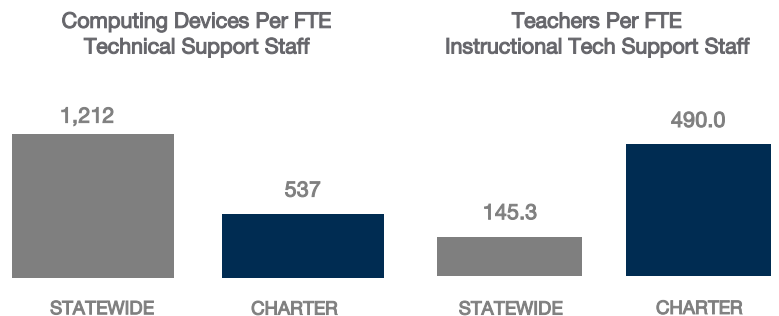
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	47	14	-17	-22%
Laptops   Windows OS	214	32	109	80%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	30	6	-19	-35%
Chromebooks   Google	95	0	94	9400%
Tablets   Windows	0	0	0	N/A
Tablets   Android	20	0	14	233%
Tablets   IOS	140	46	53	40%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



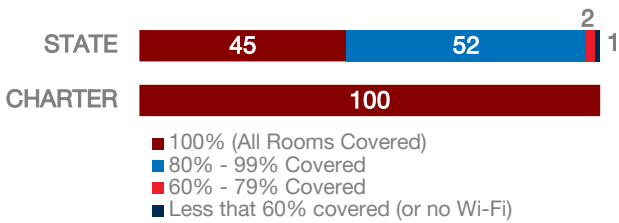
## North Star Academy

### CHARTER FACTS

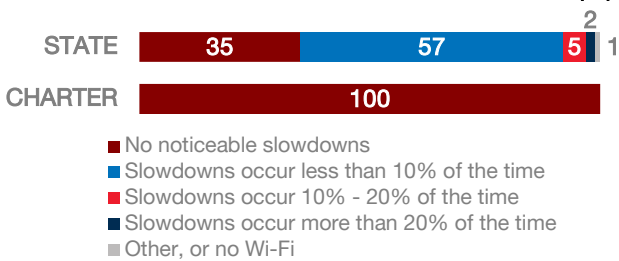
Area Population	N/A
Enrollment	530
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

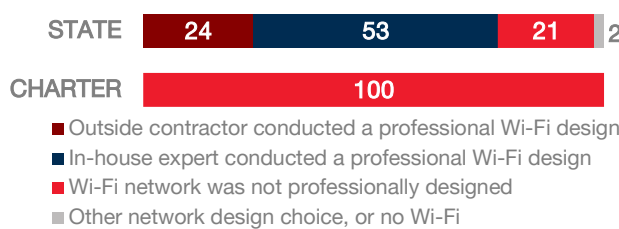
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

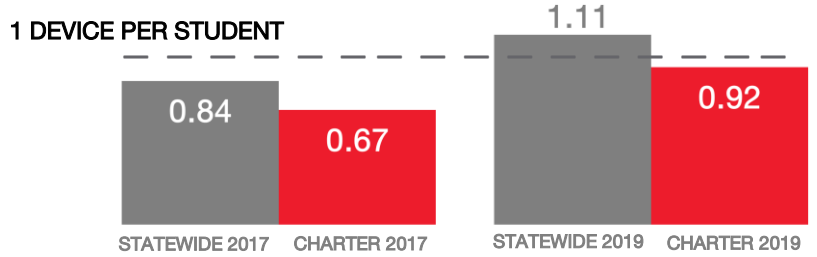
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

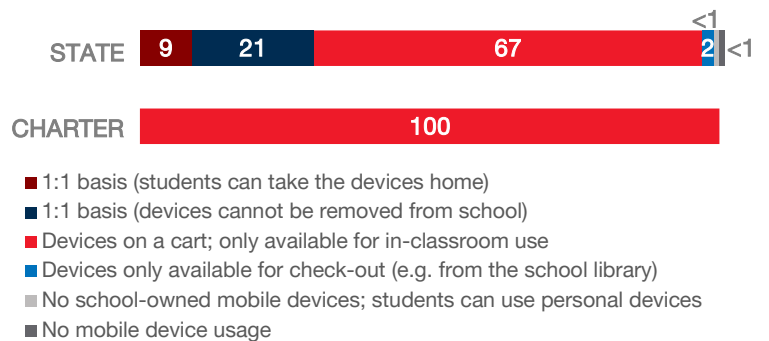


### COMPUTING DEVICES USED IN SCHOOLS

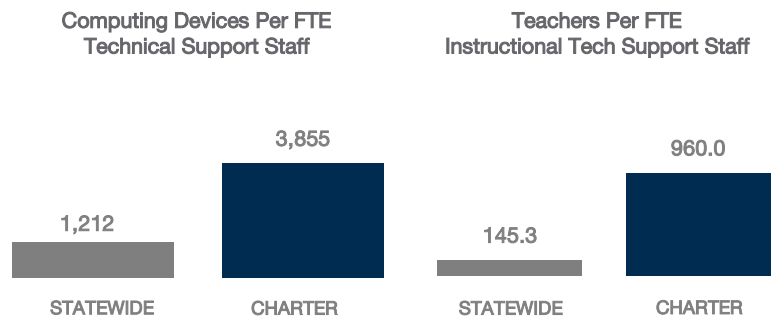
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	-1	-100%
Laptops   Windows OS	0	0	-29	-100%
Desktops   Mac	62	3	-31	-32%
Laptops   Mac	0	32	0	0%
Chromebooks   Google	423	0	201	91%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	5	5	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS

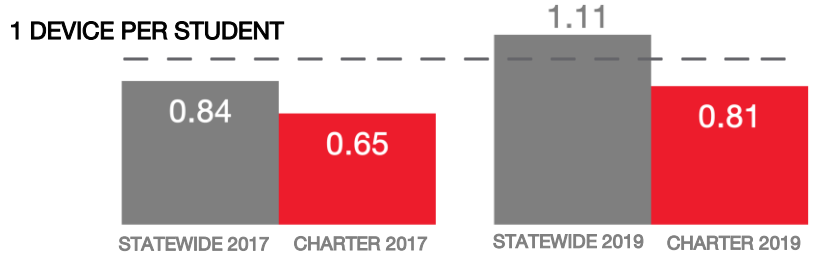


## Northern Utah Academy for Math Engineering And Science

### CHARTER FACTS

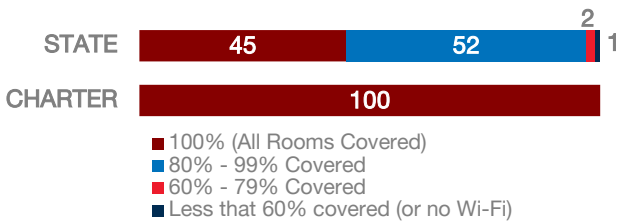
Area Population	N/A
Enrollment	1,035
Number of Schools	2
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### COMPUTING DEVICES PER STUDENT

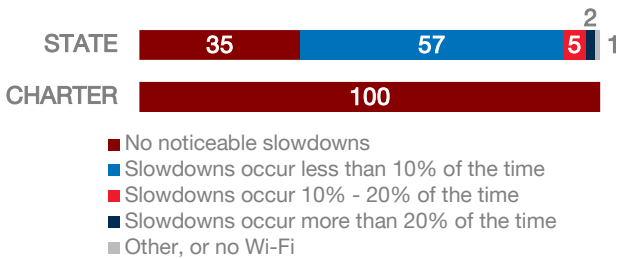


### WI-FI NETWORKS

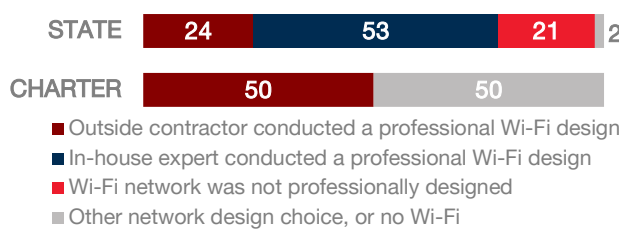
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

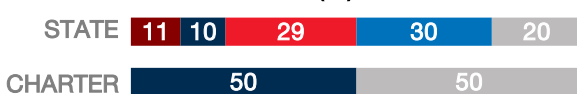


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

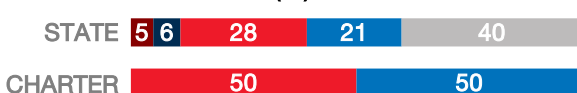


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)

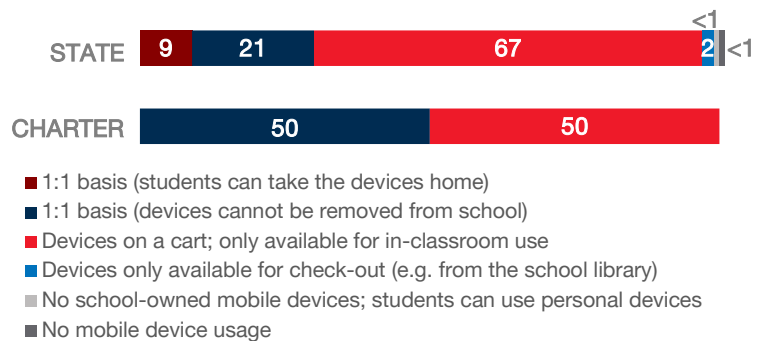


### COMPUTING DEVICES USED IN SCHOOLS

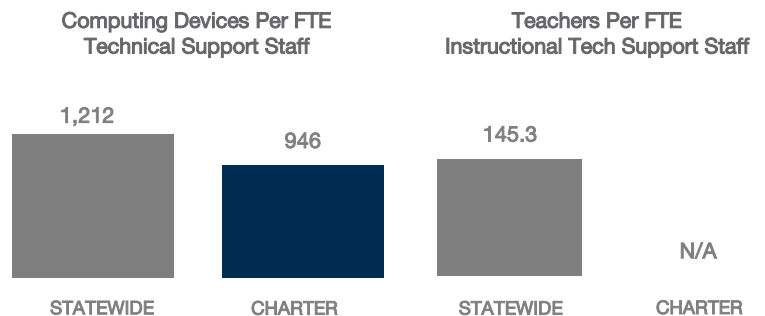
	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	565	72	173	37%
Laptops   Windows OS	270	38	234	316%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	1	1	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



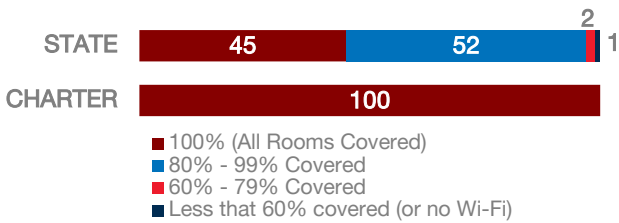
## Odyssey Charter School

### CHARTER FACTS

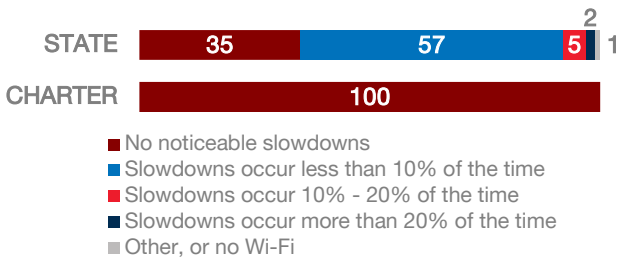
Area Population	N/A
Enrollment	431
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

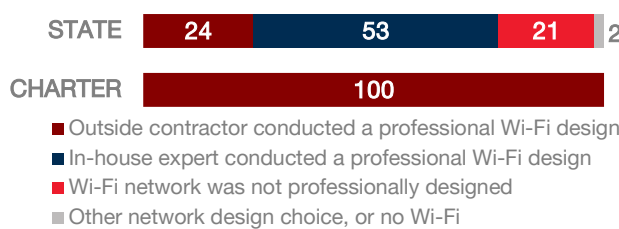
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

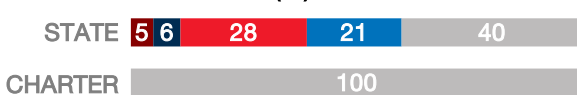


### NETWORK GEAR IN SCHOOLS

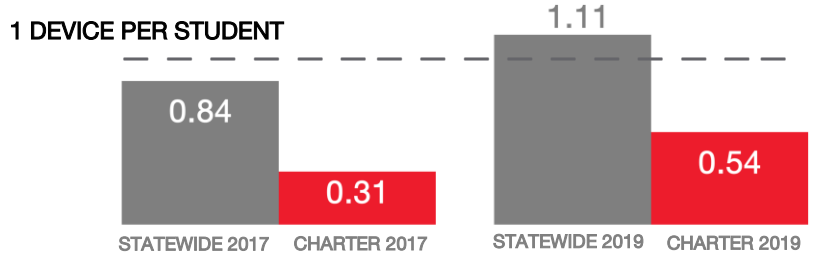
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

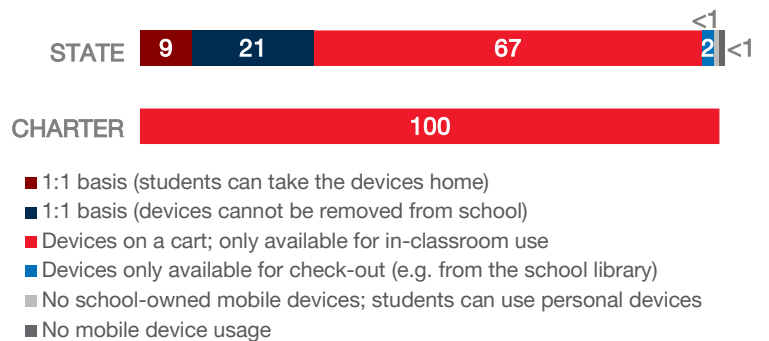


### COMPUTING DEVICES USED IN SCHOOLS

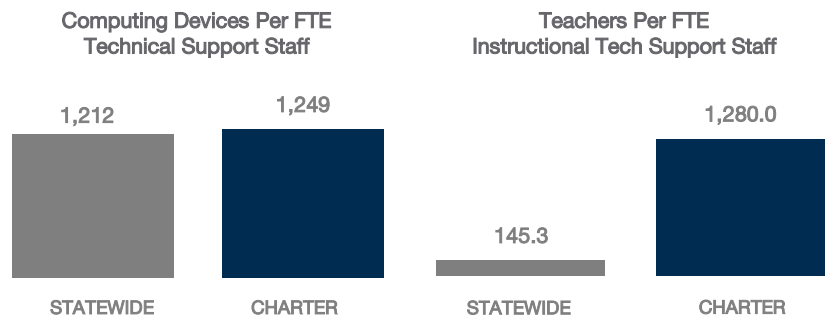
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	58	6	7	12%
Laptops   Windows OS	0	43	3	8%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	-2	-100%
Chromebooks   Google	174	0	84	93%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





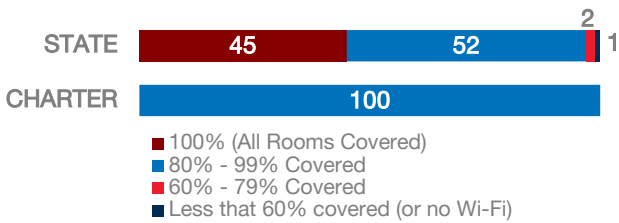
## Ogden Preparatory Academy

### CHARTER FACTS

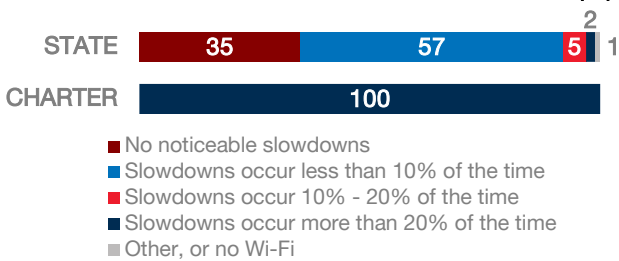
Area Population	N/A
Enrollment	1,049
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

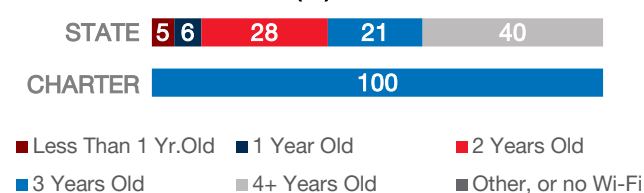


### NETWORK GEAR IN SCHOOLS

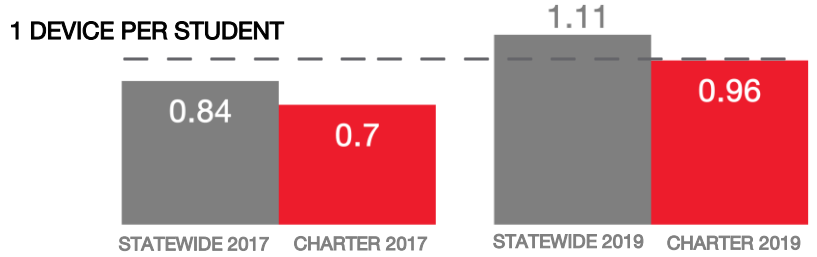
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

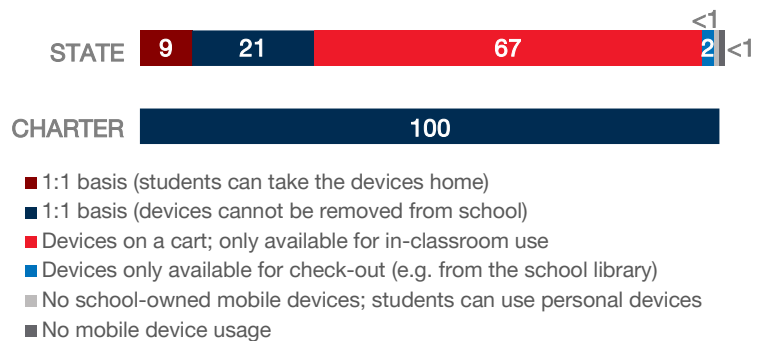


### COMPUTING DEVICES USED IN SCHOOLS

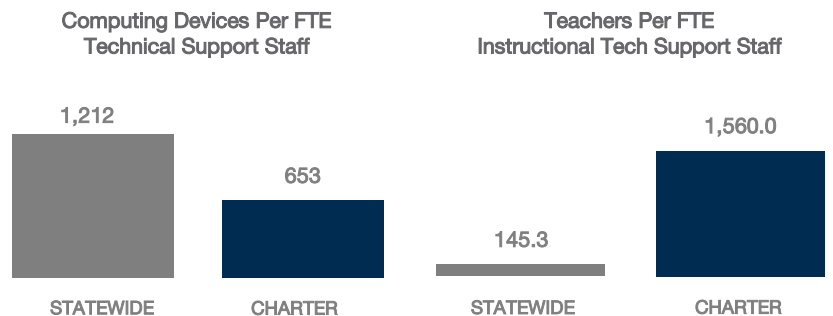
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	10	7	233%
Laptops   Windows OS	0	0	-1	-100%
Desktops   Mac	0	1	1	N/A
Laptops   Mac	0	10	-5	-33%
Chromebooks   Google	910	60	249	35%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	100	2	-18	-15%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





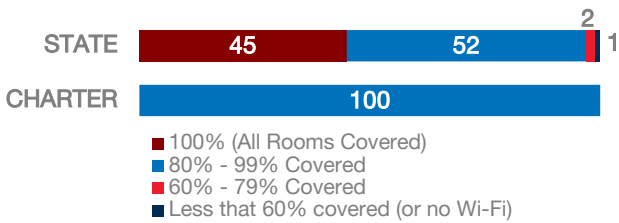
## Open Classroom

### CHARTER FACTS

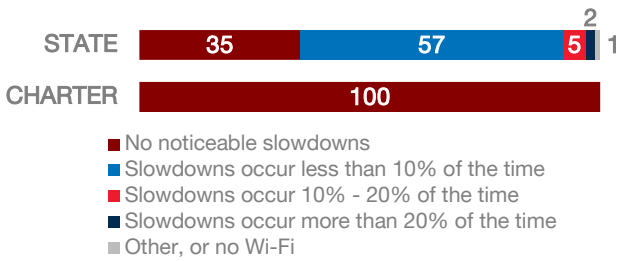
Area Population	N/A
Enrollment	323
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

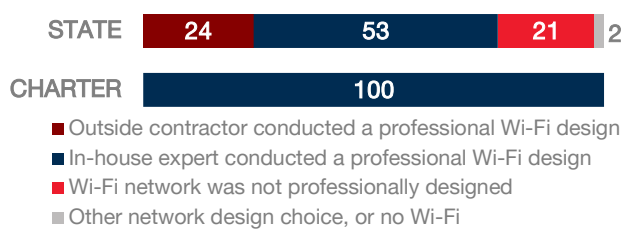
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

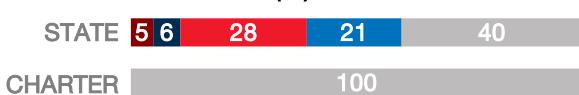


### NETWORK GEAR IN SCHOOLS

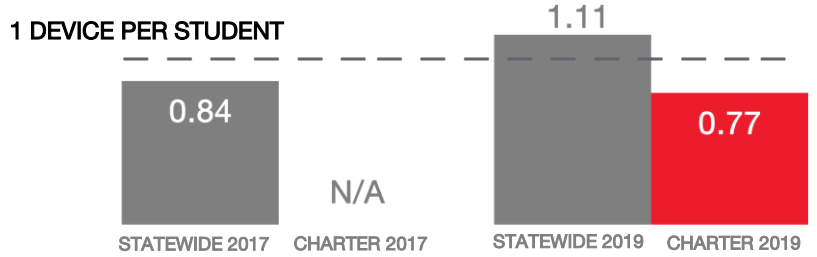
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

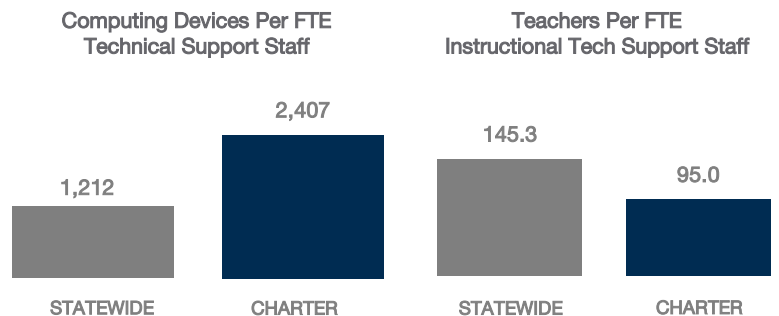
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	59	37	96	N/A
Laptops   Windows OS	133	71	204	N/A
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	58	3	61	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



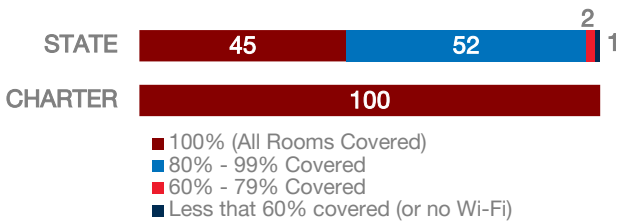
## Pacific Heritage Academy

### CHARTER FACTS

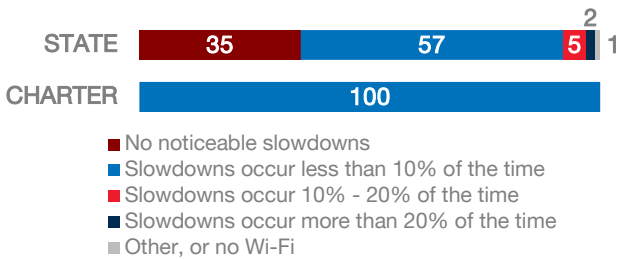
Area Population	N/A
Enrollment	389
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

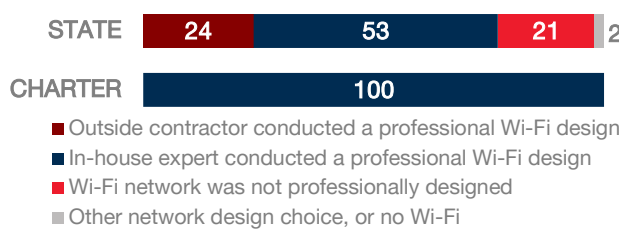
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

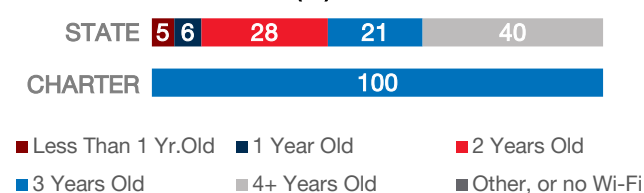


### NETWORK GEAR IN SCHOOLS

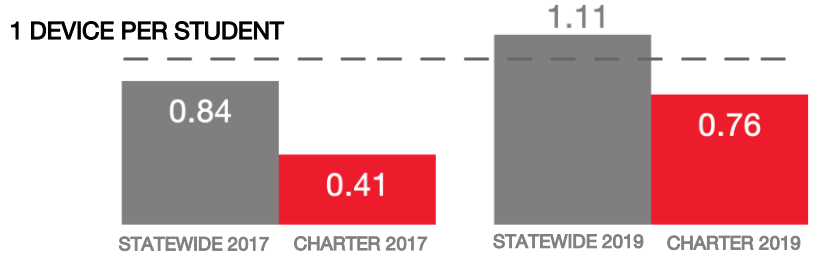
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

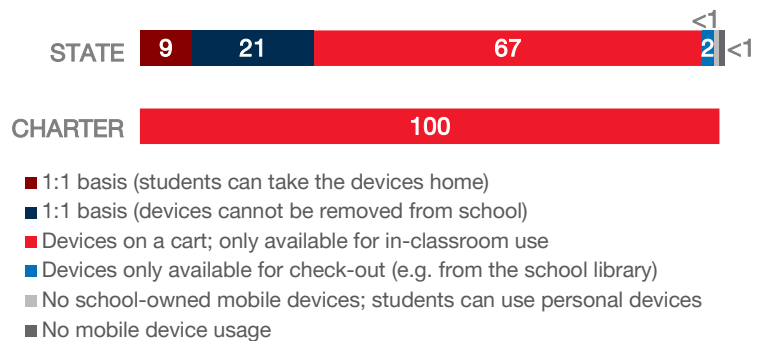


### COMPUTING DEVICES USED IN SCHOOLS

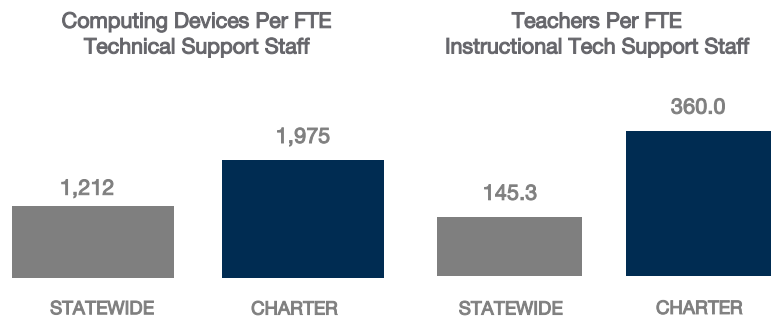
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	51	51	N/A
Laptops   Windows OS	0	36	-6	-14%
Desktops   Mac	39	1	40	N/A
Laptops   Mac	0	3	0	0%
Chromebooks   Google	180	0	60	50%
Tablets   Windows	0	0	0	N/A
Tablets   Android	66	7	37	103%
Tablets   IOS	6	2	8	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



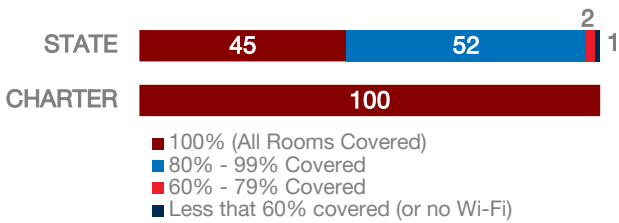
## Paradigm High School

### CHARTER FACTS

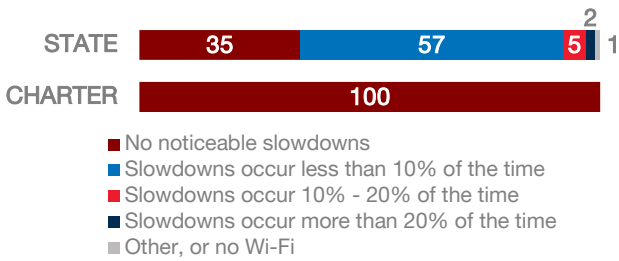
Area Population	N/A
Enrollment	438
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

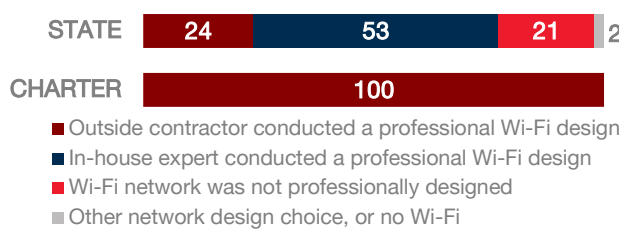
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

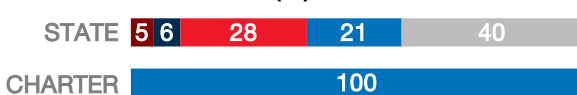


### NETWORK GEAR IN SCHOOLS

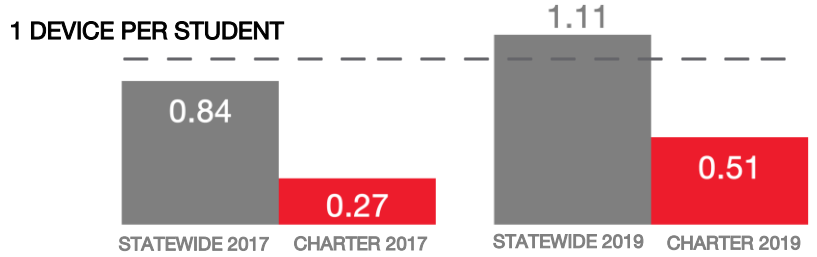
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

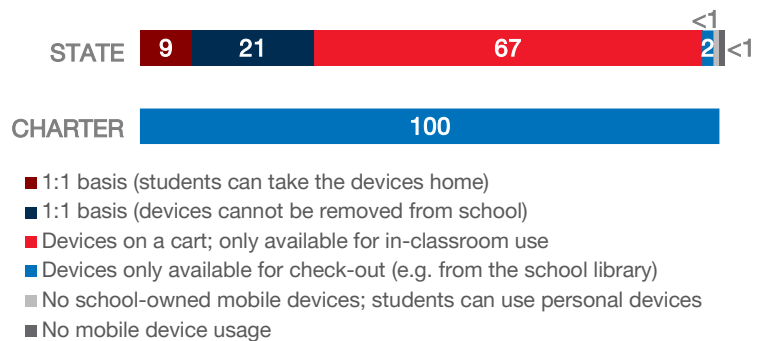


### COMPUTING DEVICES USED IN SCHOOLS

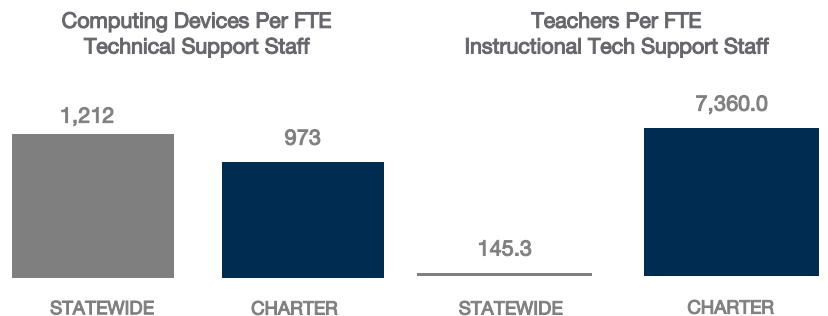
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	40	10	0	0%
Laptops   Windows OS	20	40	0	0%
Desktops   Mac	0	1	1	N/A
Laptops   Mac	0	1	0	0%
Chromebooks   Google	85	8	0	0%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



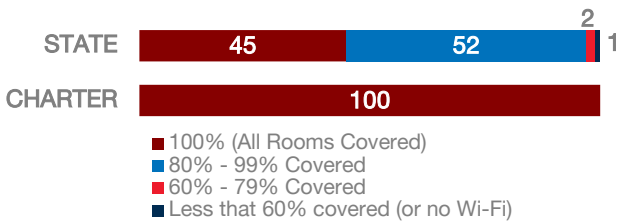
## Pinnacle Canyon Academy

### CHARTER FACTS

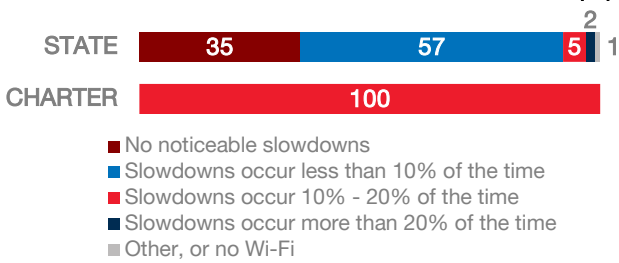
Area Population	N/A
Enrollment	473
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

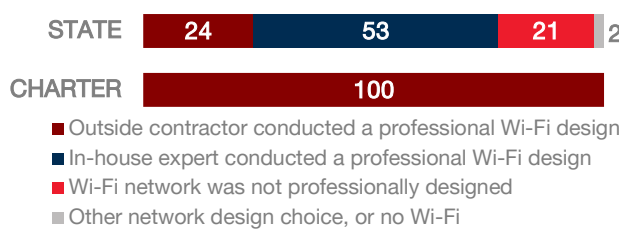
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

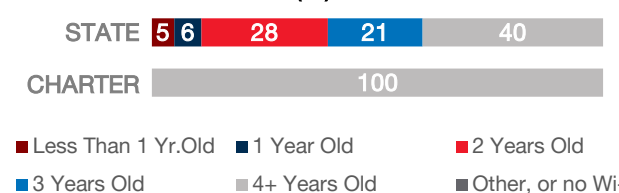


### NETWORK GEAR IN SCHOOLS

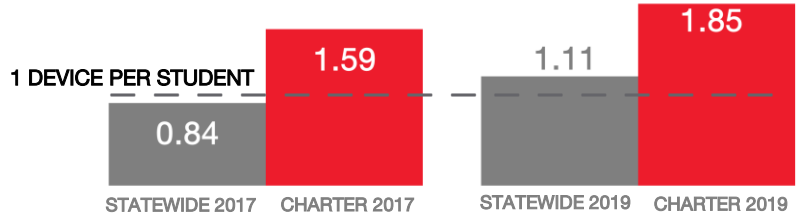
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

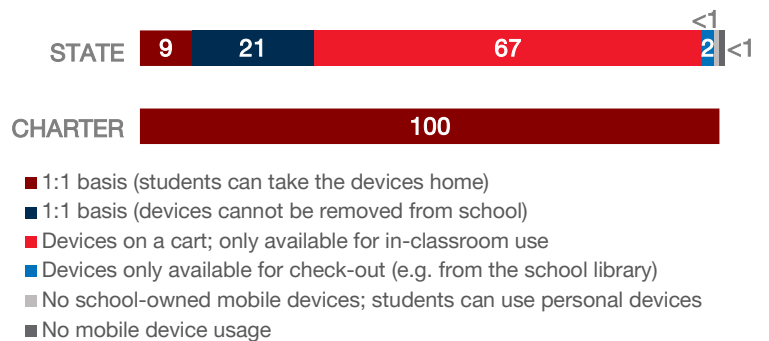


### COMPUTING DEVICES USED IN SCHOOLS

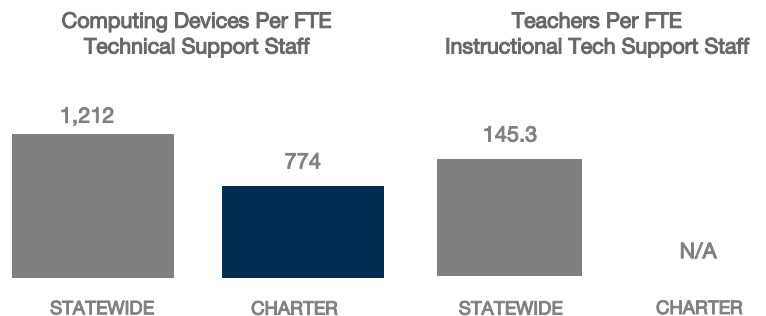
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	6	0	0%
Laptops   Windows OS	0	5	-100	-95%
Desktops   Mac	73	6	0	0%
Laptops   Mac	221	42	96	57%
Chromebooks   Google	30	0	0	0%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	550	35	-9	-2%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



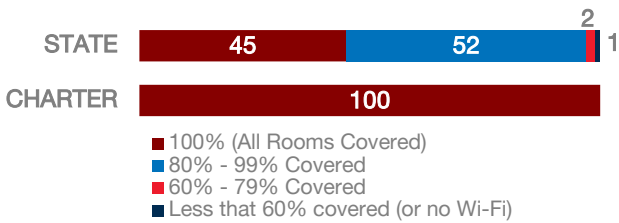
## Promontory School of Expeditionary Learning

### CHARTER FACTS

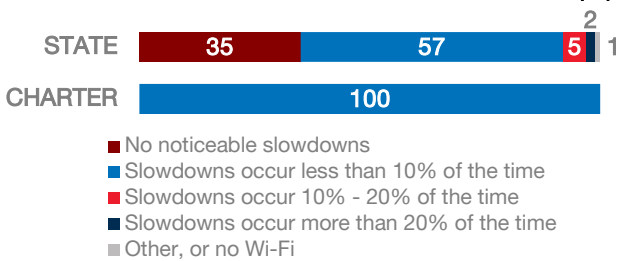
Area Population	N/A
Enrollment	435
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

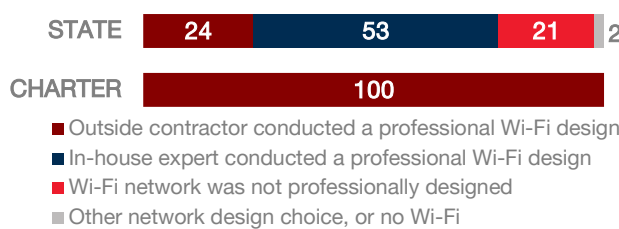
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

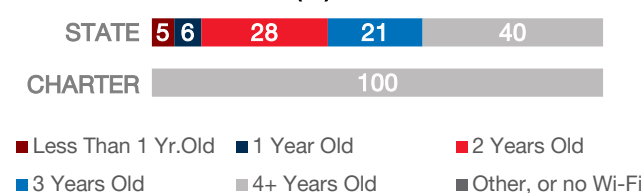


### NETWORK GEAR IN SCHOOLS

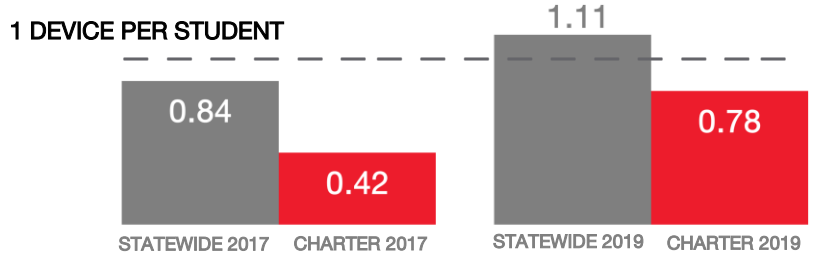
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

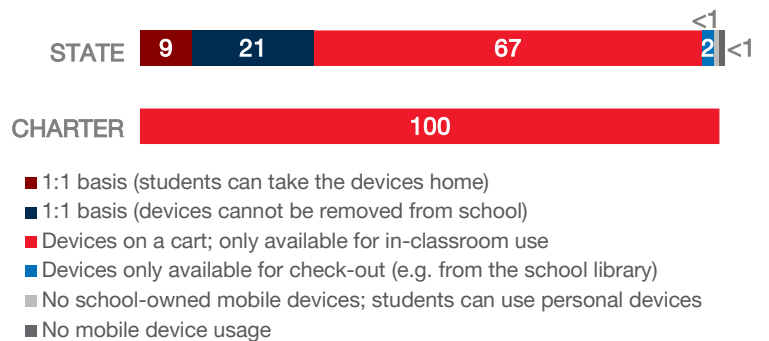


### COMPUTING DEVICES USED IN SCHOOLS

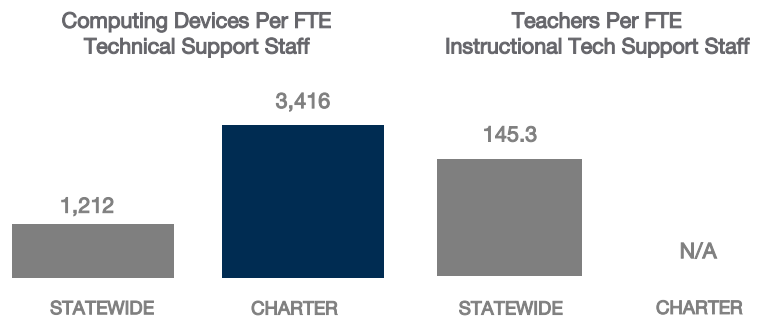
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	28	35	0	0%
Laptops   Windows OS	56	25	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	1	3	1	33%
Chromebooks   Google	220	20	171	248%
Tablets   Windows	0	0	0	N/A
Tablets   Android	25	0	0	0%
Tablets   IOS	10	4	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





## Providence Hall

### CHARTER FACTS

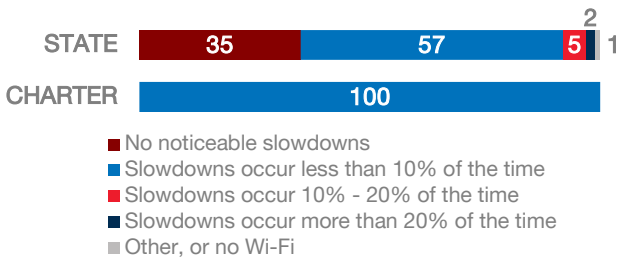
Area Population	N/A
Enrollment	2,081
Number of Schools	3
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

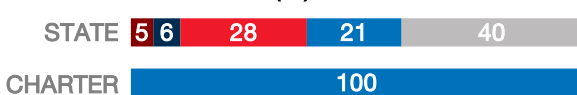


### NETWORK GEAR IN SCHOOLS

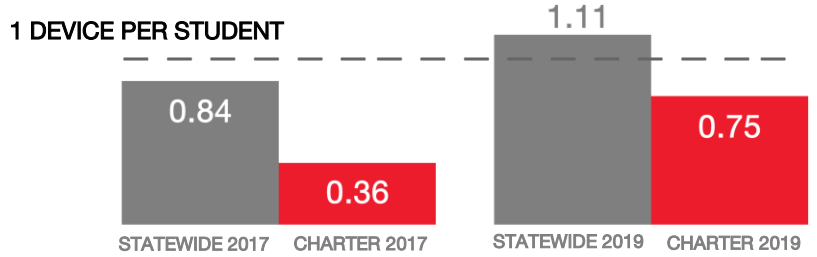
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

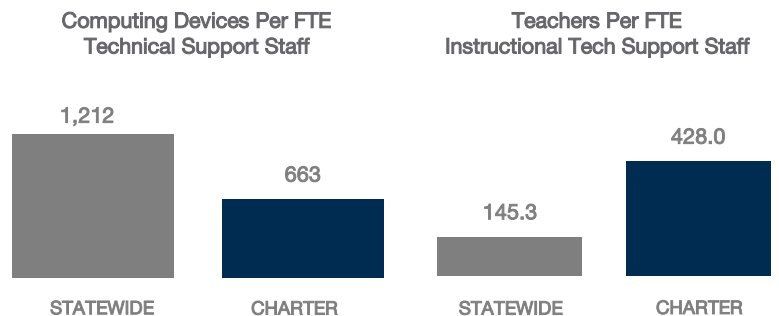
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	5	5	N/A
Laptops   Windows OS	0	0	0	N/A
Desktops   Mac	18	20	4	12%
Laptops   Mac	512	181	194	39%
Chromebooks   Google	850	0	510	150%
Tablets   Windows	0	0	0	N/A
Tablets   Android	7	0	7	N/A
Tablets   IOS	124	16	63	82%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





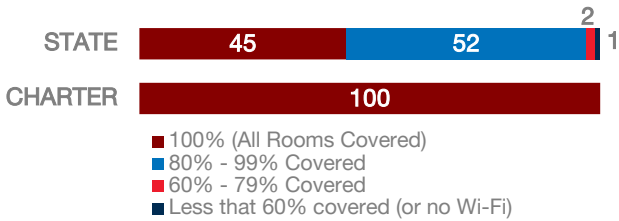
## Quest Academy

### CHARTER FACTS

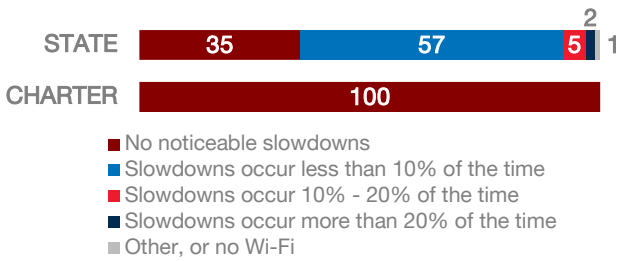
Area Population	N/A
Enrollment	1,000
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

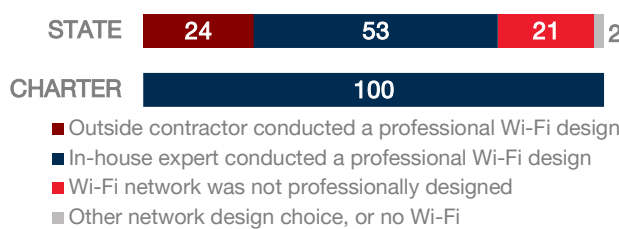
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

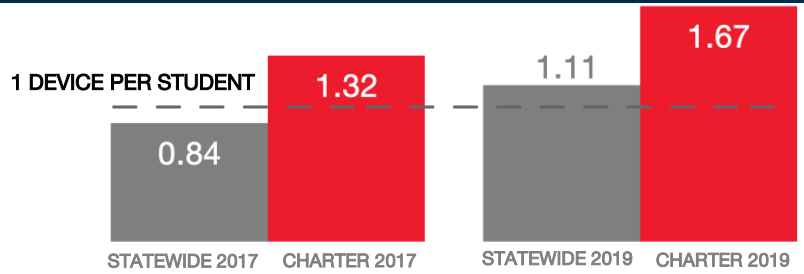
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

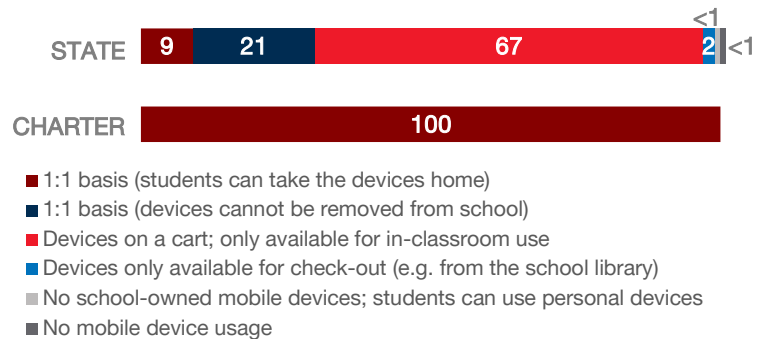


### COMPUTING DEVICES USED IN SCHOOLS

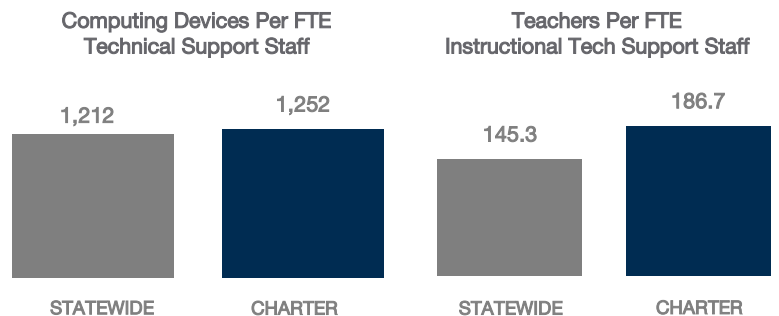
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	0	N/A
Laptops   Windows OS	30	5	-72	-67%
Desktops   Mac	30	4	-19	-36%
Laptops   Mac	375	68	53	14%
Chromebooks   Google	852	0	552	184%
Tablets   Windows	0	0	0	N/A
Tablets   Android	6	3	0	0%
Tablets   IOS	375	68	-117	-21%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



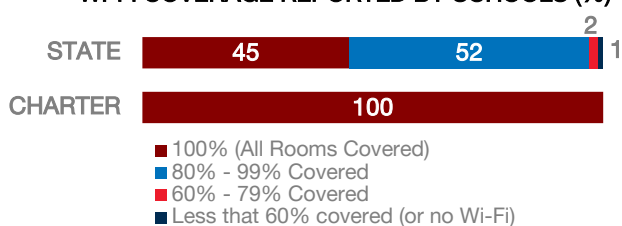
## Reagan Academy

### CHARTER FACTS

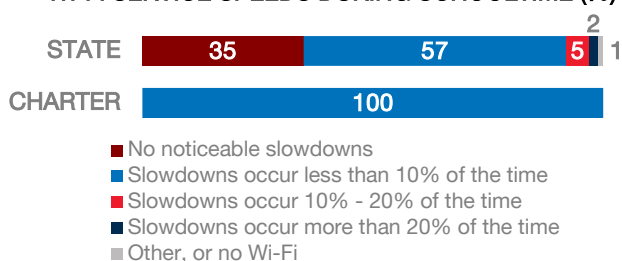
Area Population	N/A
Enrollment	677
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

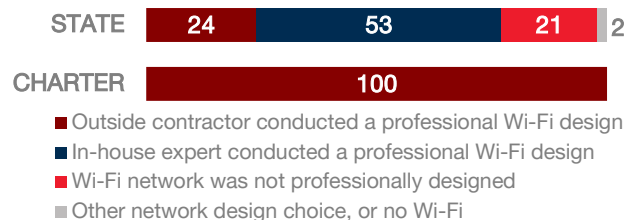
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

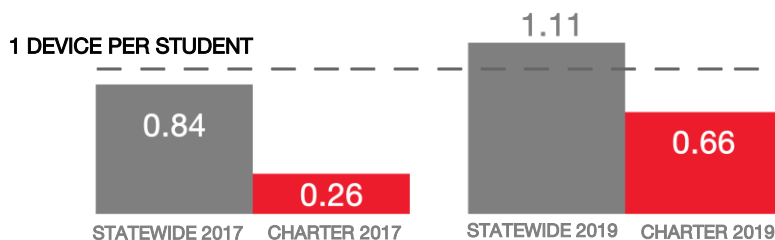


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr.Old 
 ■ 1 Year Old 
 ■ 2 Years Old 
 ■ 3 Years Old 
 ■ 4+ Years Old 
 ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

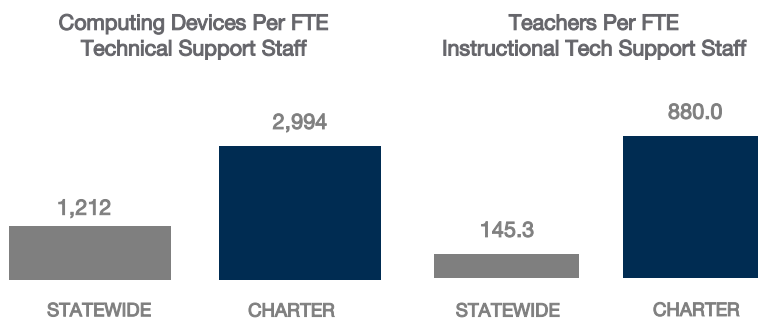
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	130	50	72	67%
Laptops   Windows OS	0	3	3	N/A
Desktops   Mac	27	0	0	0%
Laptops   Mac	0	1	1	N/A
Chromebooks   Google	230	3	155	199%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	60	20	60	300%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



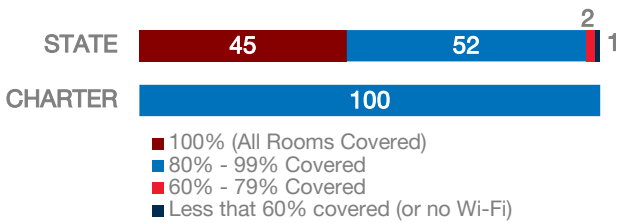
## Real Salt Lake Academy

### CHARTER FACTS

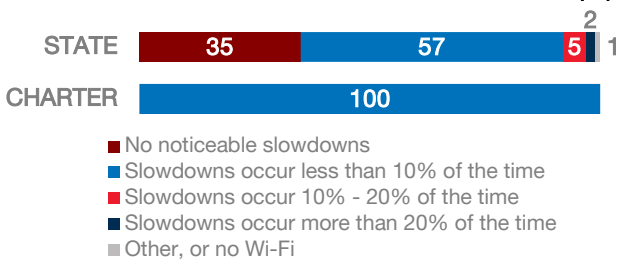
Area Population	N/A
Enrollment	338
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

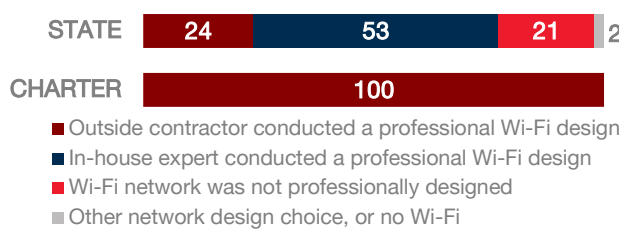
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

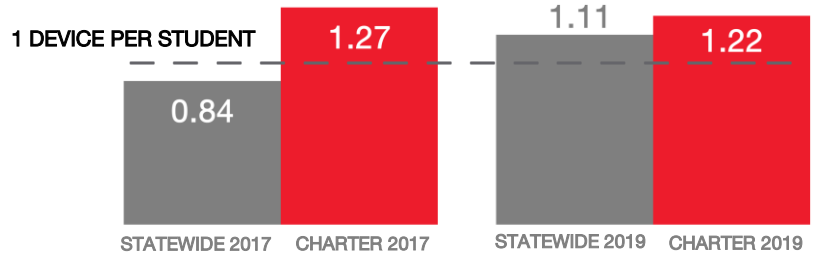
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

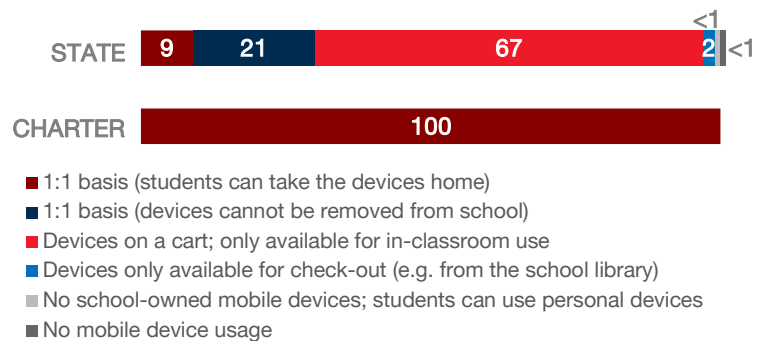


### COMPUTING DEVICES USED IN SCHOOLS

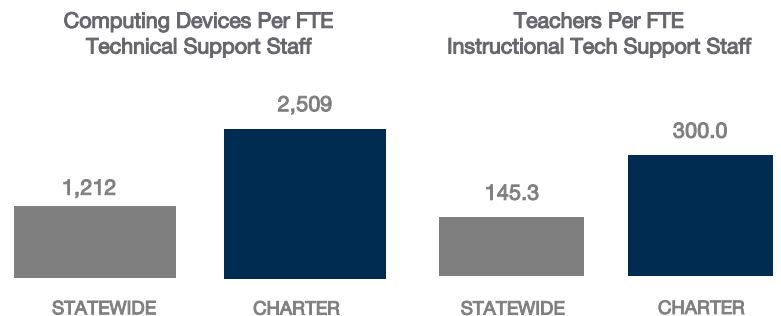
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	22	5	0	0%
Laptops   Windows OS	30	1	30	3000%
Desktops   Mac	5	0	0	0%
Laptops   Mac	15	0	0	0%
Chromebooks   Google	338	18	175	97%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	2	3	2	67%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



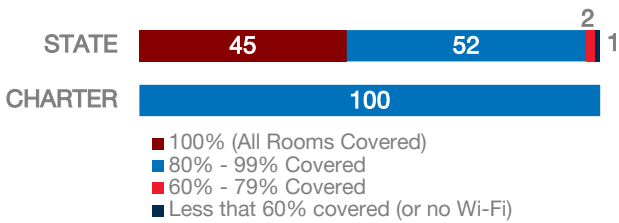
## Renaissance Academy

### CHARTER FACTS

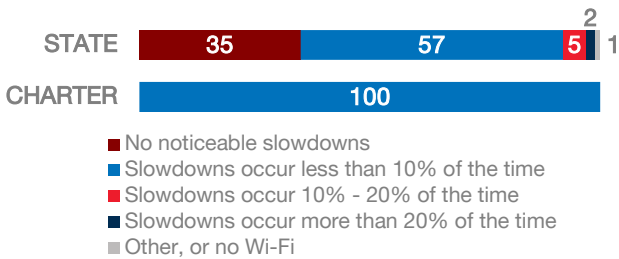
Area Population	N/A
Enrollment	757
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

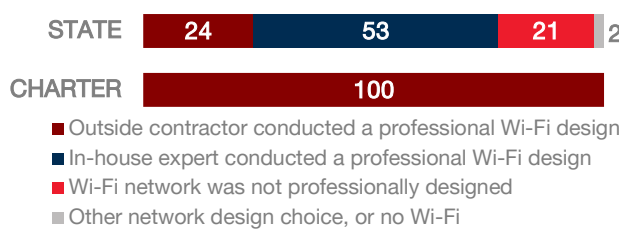
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

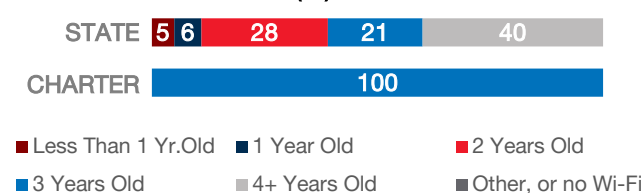


### NETWORK GEAR IN SCHOOLS

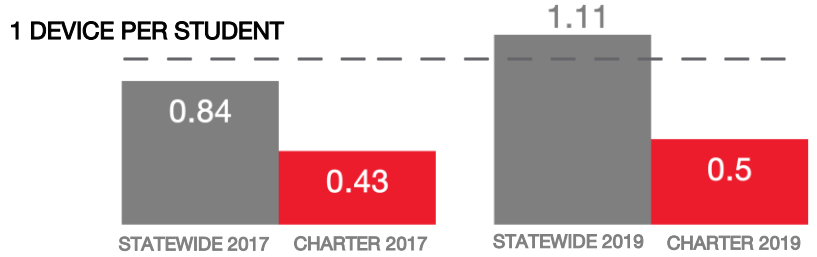
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

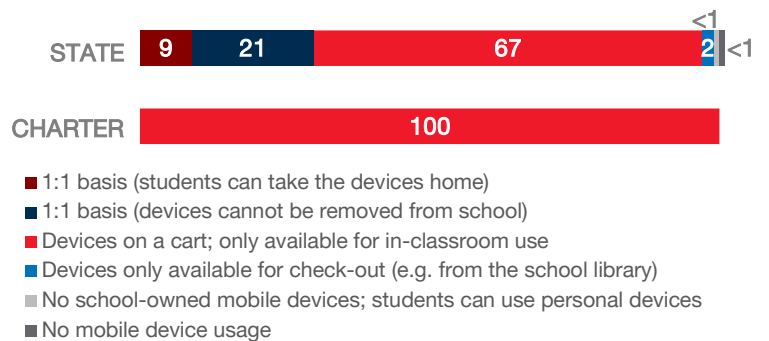


### COMPUTING DEVICES USED IN SCHOOLS

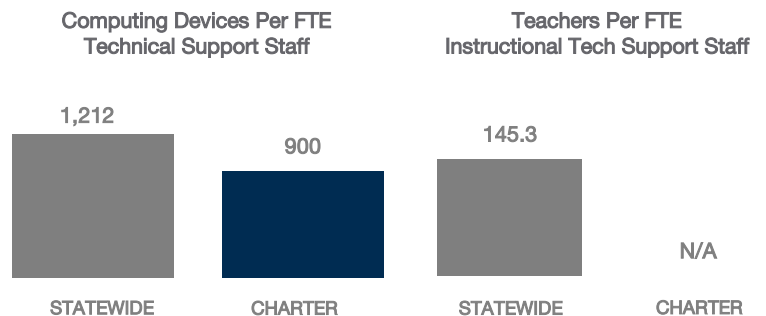
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	32	10	10	31%
Laptops   Windows OS	12	60	2	3%
Desktops   Mac	24	2	1	4%
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	250	0	106	74%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	60	0	-126	-68%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



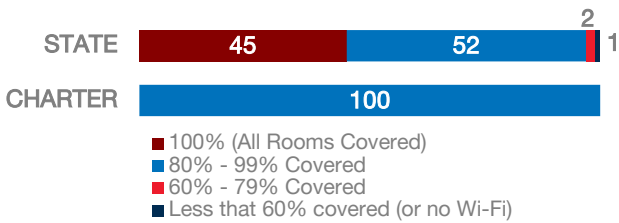
## Rockwell Charter High School

### CHARTER FACTS

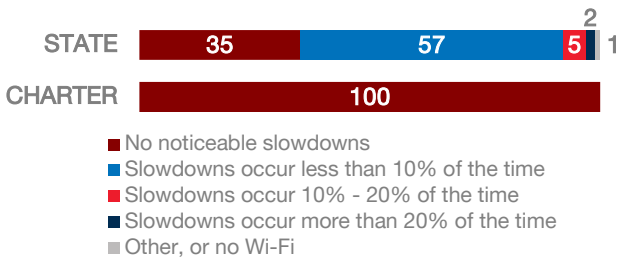
Area Population	N/A
Enrollment	456
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

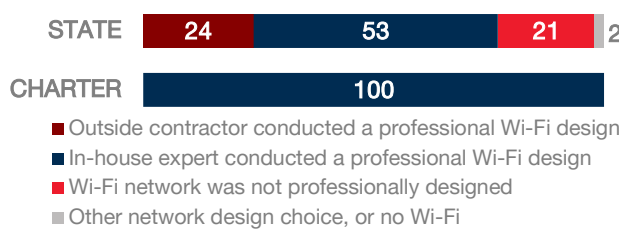
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

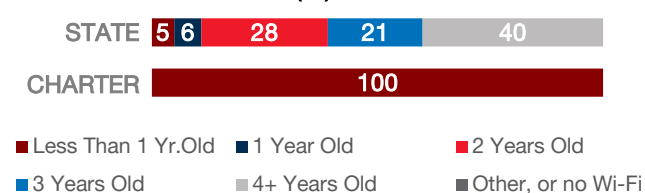


### NETWORK GEAR IN SCHOOLS

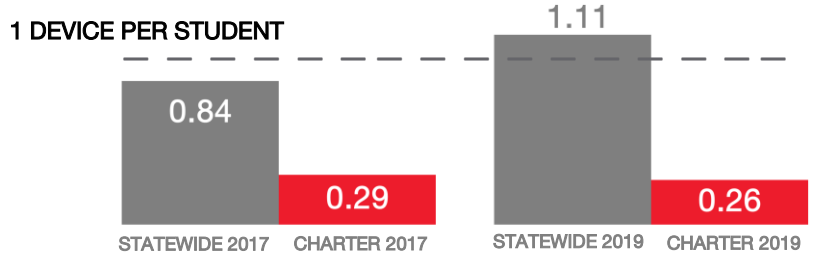
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

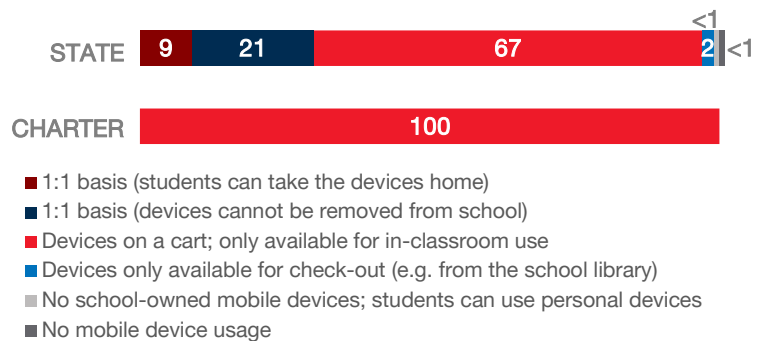


### COMPUTING DEVICES USED IN SCHOOLS

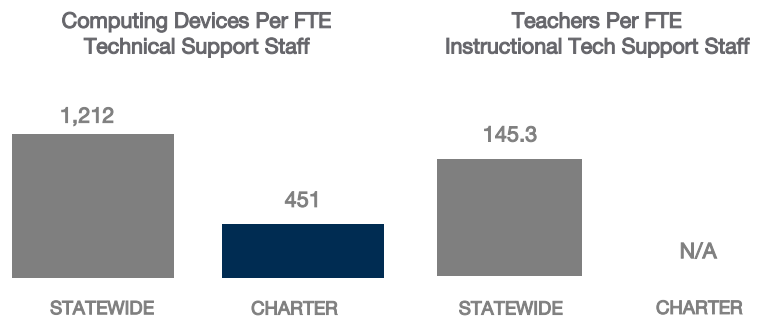
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	18	1	0	0%
Laptops   Windows OS	0	4	-25	-86%
Desktops   Mac	50	35	0	0%
Laptops   Mac	30	1	1	3%
Chromebooks   Google	10	0	-3	-23%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	10	10	10	100%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





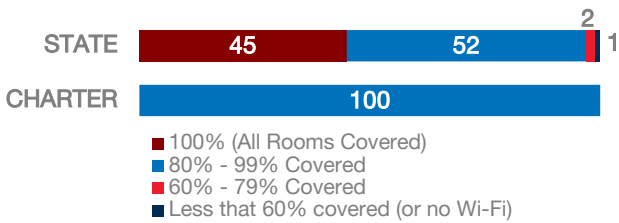
## Roots Charter High School

### DISTRICT FACTS

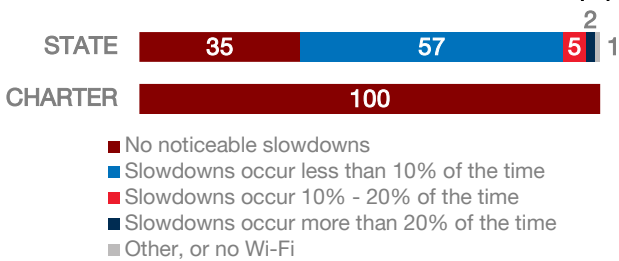
Area Population	N/A
Enrollment	197
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

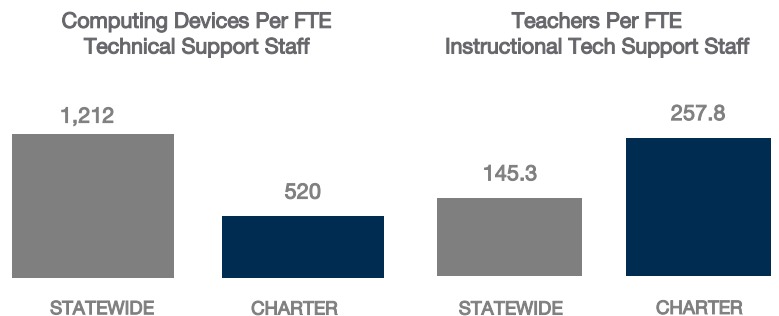
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	0	N/A
Laptops   Windows OS	0	0	0	N/A
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	20	1	5%
Chromebooks   Google	110	10	0	0%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	2	1	2	200%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





## Salt Lake Arts Academy

### CHARTER FACTS

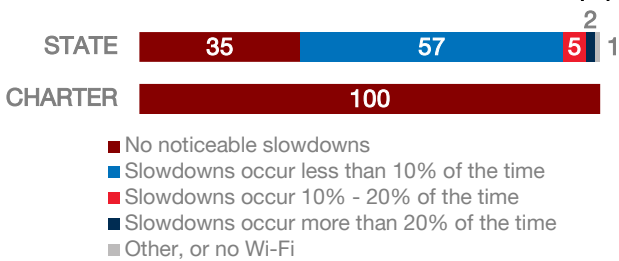
Area Population	N/A
Enrollment	408
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

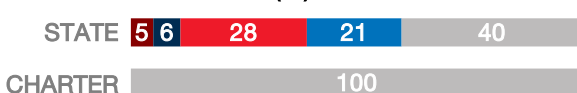


### NETWORK GEAR IN SCHOOLS

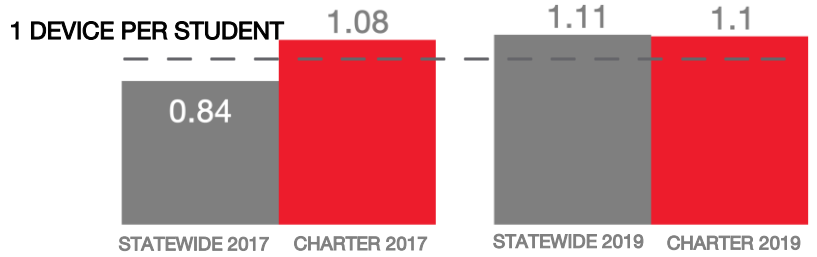
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

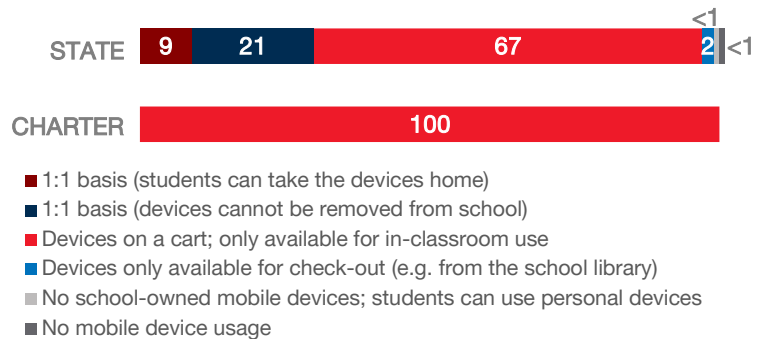


### COMPUTING DEVICES USED IN SCHOOLS

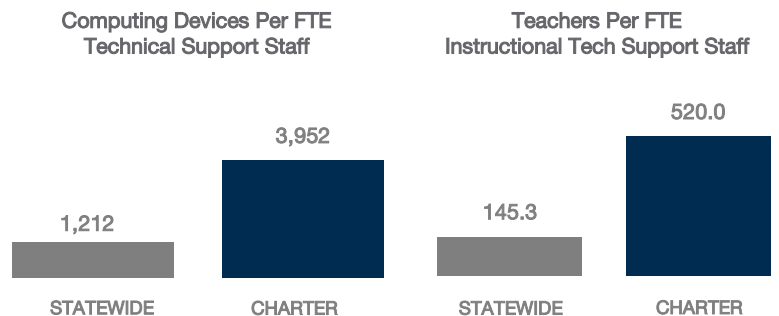
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	3	1	50%
Laptops   Windows OS	0	0	0	N/A
Desktops   Mac	25	10	0	0%
Laptops   Mac	0	25	0	0%
Chromebooks   Google	400	0	25	7%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	25	5	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



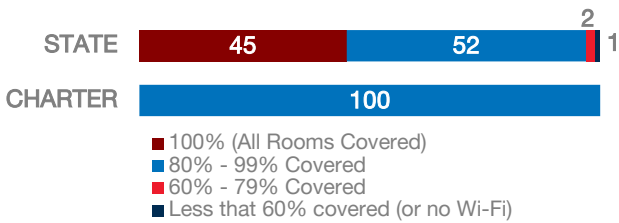
## Salt Lake Center For Science Education

### CHARTER FACTS

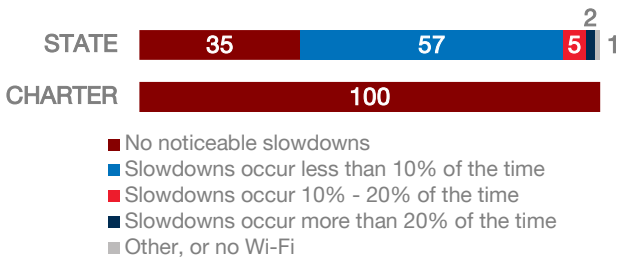
Area Population	N/A
Enrollment	392
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

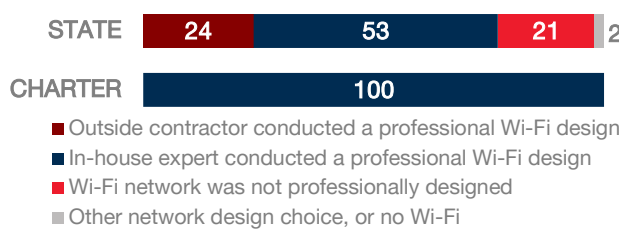
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

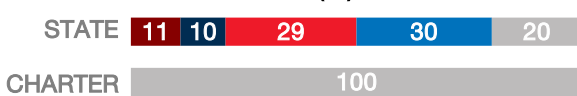


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

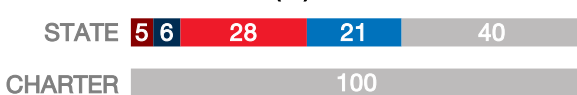


### NETWORK GEAR IN SCHOOLS

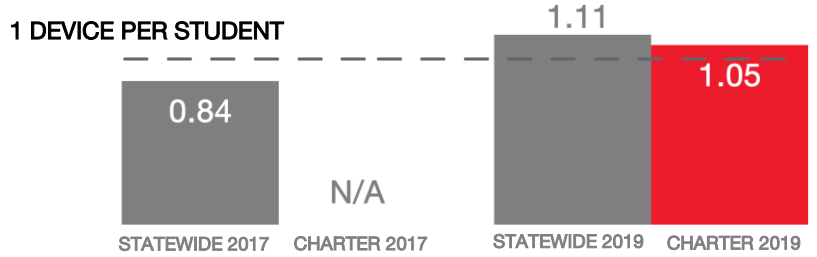
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

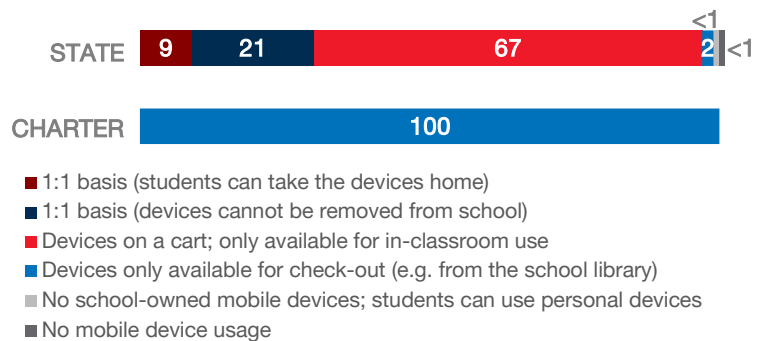


### COMPUTING DEVICES USED IN SCHOOLS

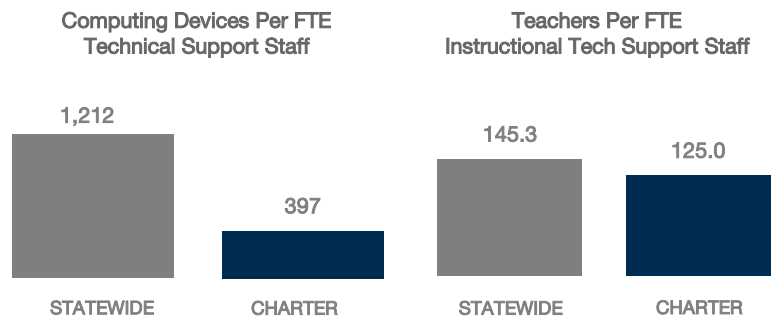
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	100	47	147	N/A
Laptops   Windows OS	244	16	260	N/A
Desktops   Mac	0	0	0	N/A
Laptops   Mac	15	1	16	N/A
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	53	0	53	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



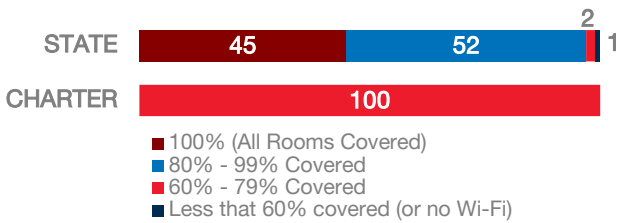
## Salt Lake School of Performing Arts

### CHARTER FACTS

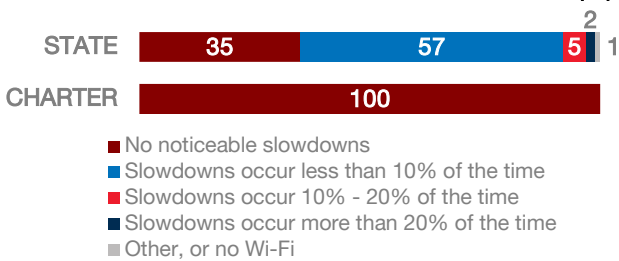
Area Population	N/A
Enrollment	287
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

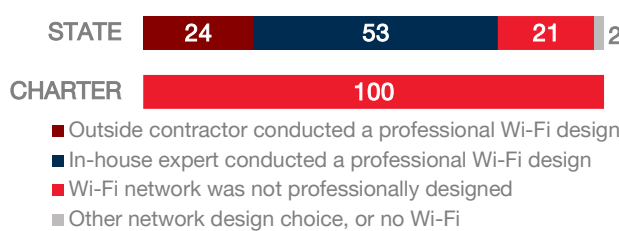
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

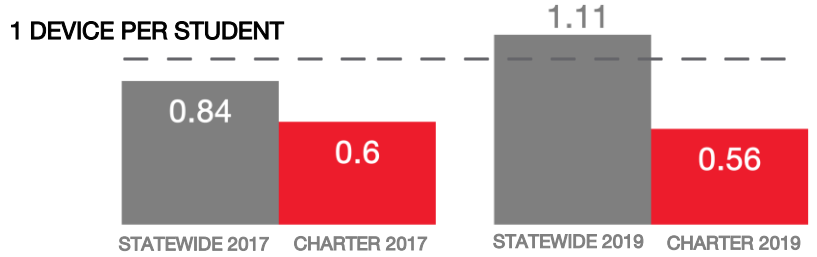


#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr. Old ■ 1 Year Old ■ 2 Years Old  
■ 3 Years Old ■ 4+ Years Old ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

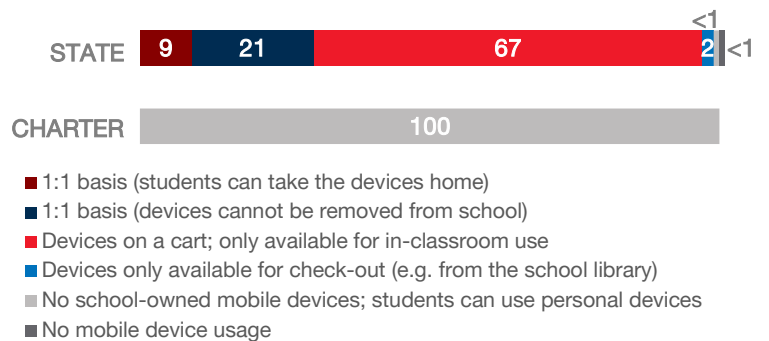


### COMPUTING DEVICES USED IN SCHOOLS

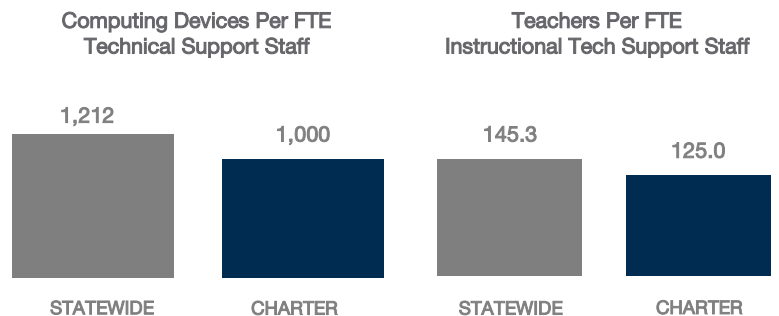
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	8	24	-26	-45%
Laptops   Windows OS	24	0	-1	-4%
Desktops   Mac	43	3	26	130%
Laptops   Mac	0	5	2	67%
Chromebooks   Google	77	5	0	0%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	9	2	1	10%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



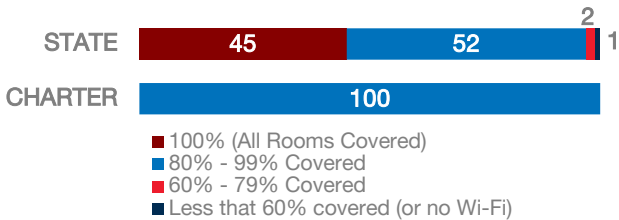
## Scholar Academy

### CHARTER FACTS

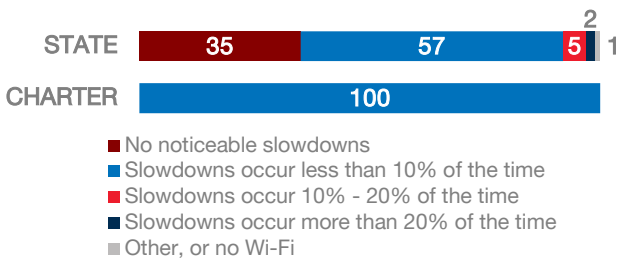
Area Population	N/A
Enrollment	660
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

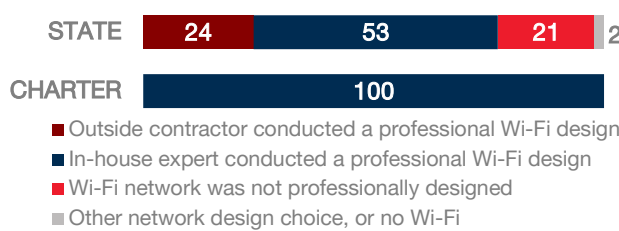
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

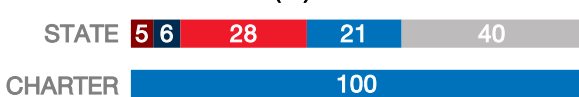


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



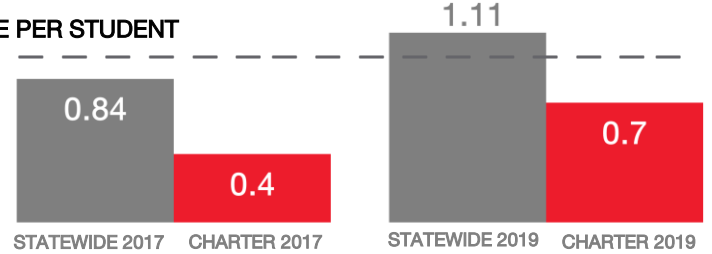
#### AGE OF WIRED GEAR (%)



■ Less Than 1 Yr.Old ■ 1 Year Old ■ 2 Years Old  
■ 3 Years Old ■ 4+ Years Old ■ Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	62	40	40	65%
Laptops   Windows OS	294	15	151	96%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	30	0	9	43%
Tablets   IOS	65	30	43	83%

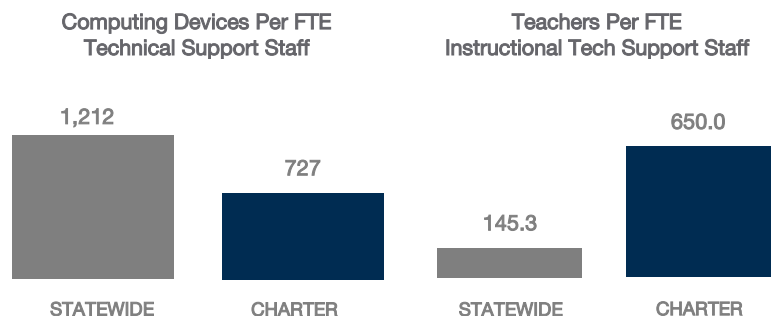
### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



- 1:1 basis (students can take the devices home)
- 1:1 basis (devices cannot be removed from school)
- Devices on a cart; only available for in-classroom use
- Devices only available for check-out (e.g. from the school library)
- No school-owned mobile devices; students can use personal devices
- No mobile device usage

### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



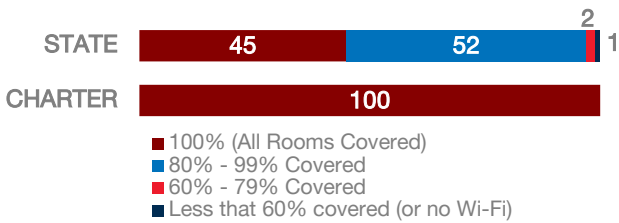
## Soldier Hollow Charter School

### CHARTER FACTS

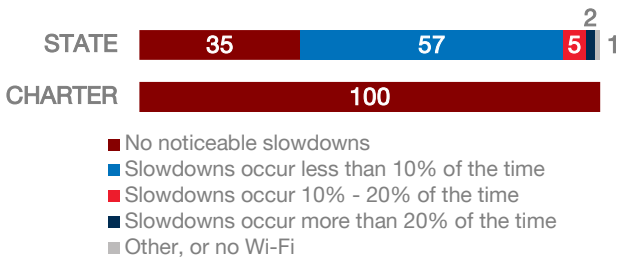
Area Population	N/A
Enrollment	315
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

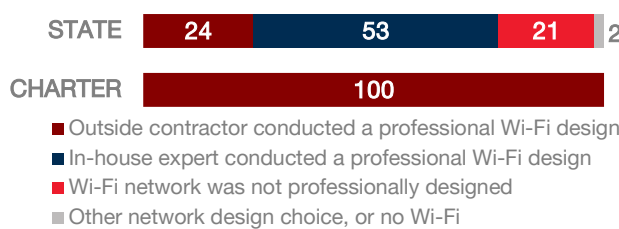
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

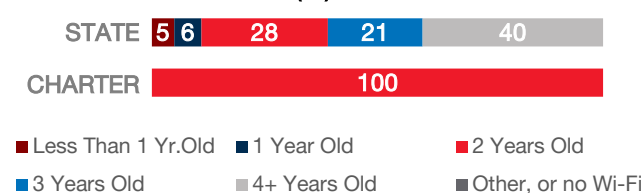


### NETWORK GEAR IN SCHOOLS

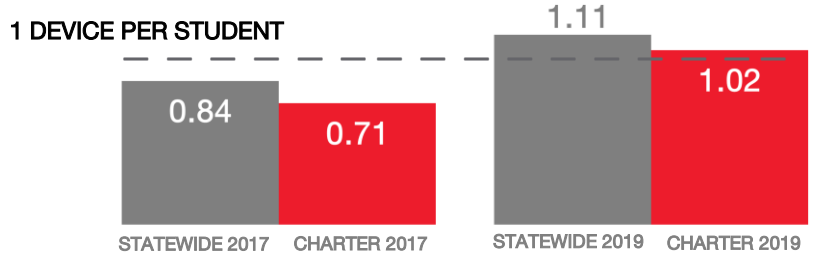
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

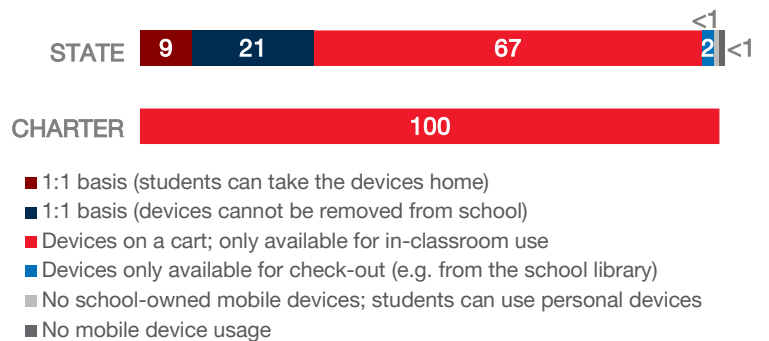


### COMPUTING DEVICES USED IN SCHOOLS

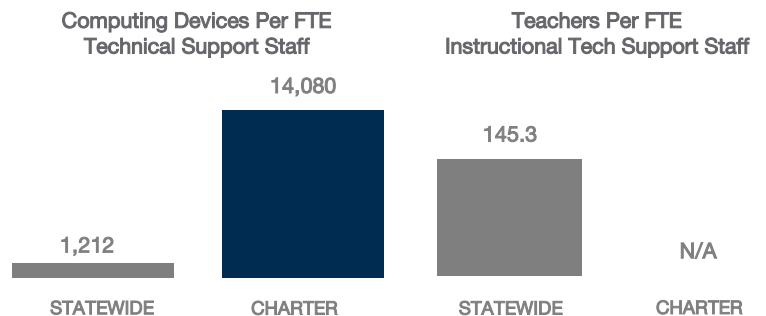
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	6	0	0%
Laptops   Windows OS	94	19	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	188	0	99	111%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	40	5	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





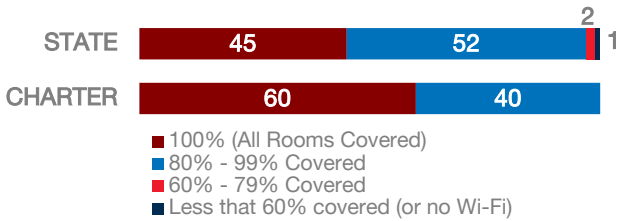
## Spectrum Academy

### CHARTER FACTS

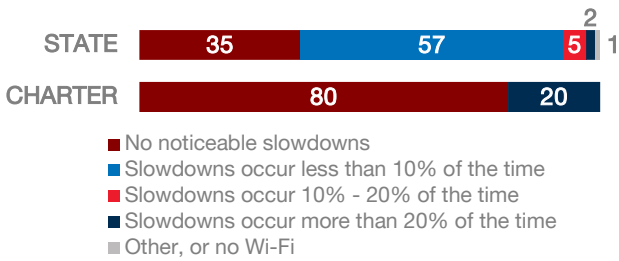
Area Population	N/A
Enrollment	1,500
Number of Schools	5
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

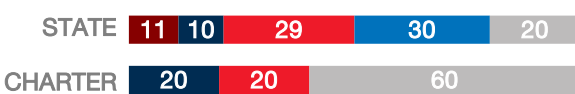


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

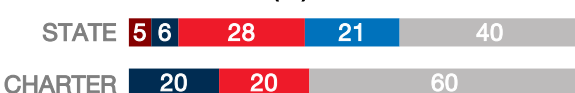


### NETWORK GEAR IN SCHOOLS

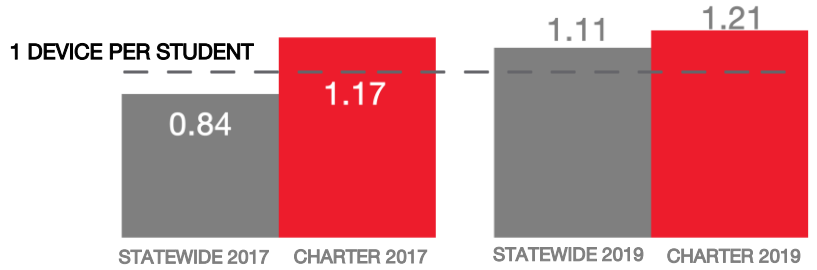
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

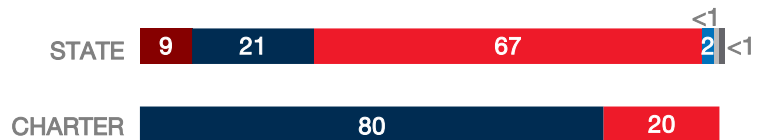


### COMPUTING DEVICES USED IN SCHOOLS

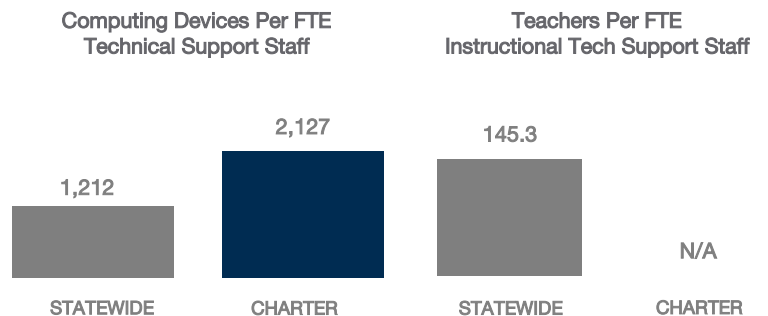
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	150	60	32	18%
Laptops   Windows OS	15	150	9	6%
Desktops   Mac	0	1	1	N/A
Laptops   Mac	1	20	21	N/A
Chromebooks   Google	1,470	25	619	71%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	175	60	-225	-49%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





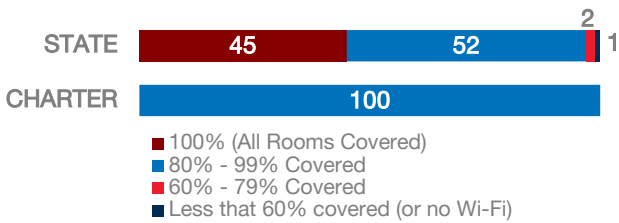
## St. George Academy

### CHARTER FACTS

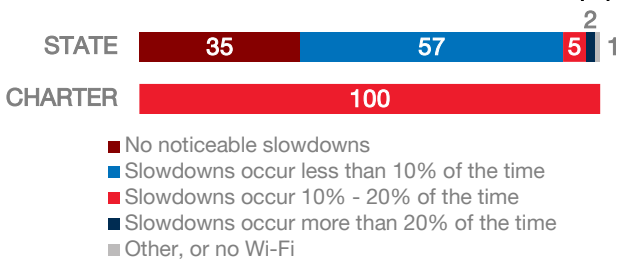
Area Population	N/A
Enrollment	252
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

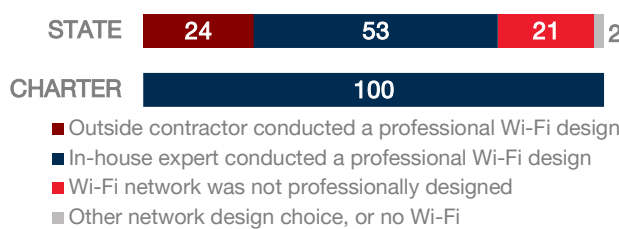
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



- Less Than 1 Yr.Old
- 1 Year Old
- 2 Years Old
- 3 Years Old
- 4+ Years Old
- Other, or no Wi-Fi

### COMPUTING DEVICES PER STUDENT

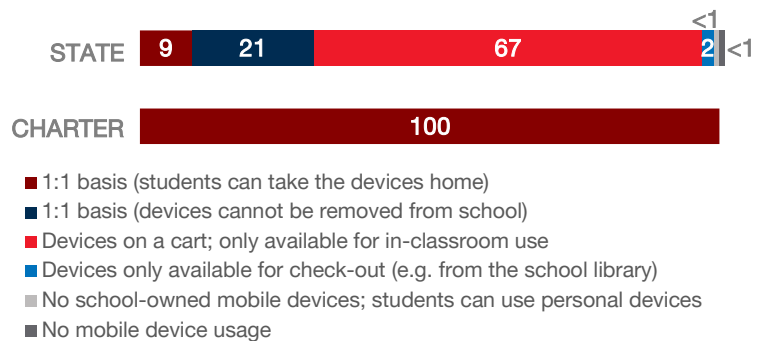


### COMPUTING DEVICES USED IN SCHOOLS

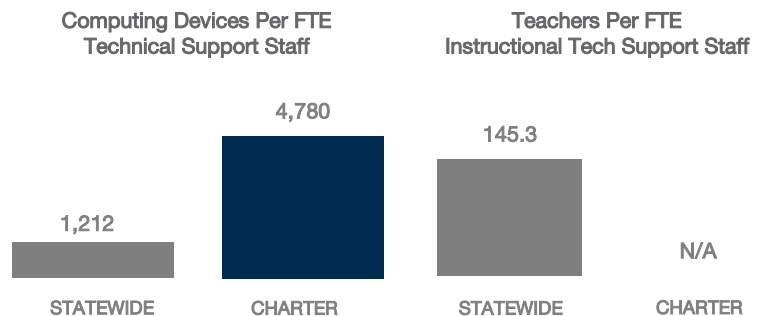
	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	1	0	0%
Laptops   Windows OS	0	4	0	0%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	9	0	0%
Chromebooks   Google	225	0	14	7%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



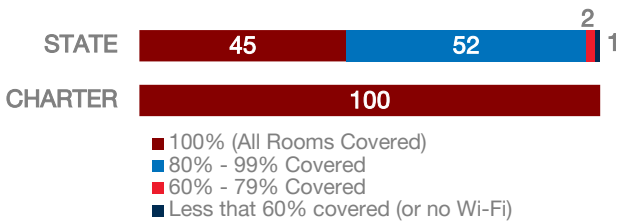
## Success Academy

### CHARTER FACTS

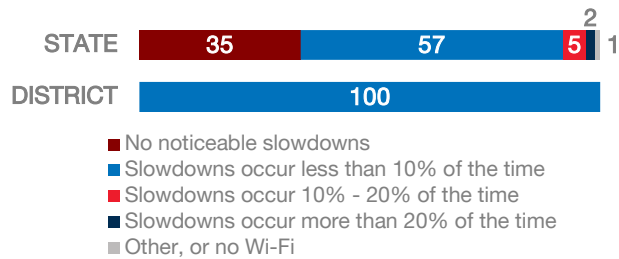
Area Population	N/A
Enrollment	436
Number of Schools	2
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

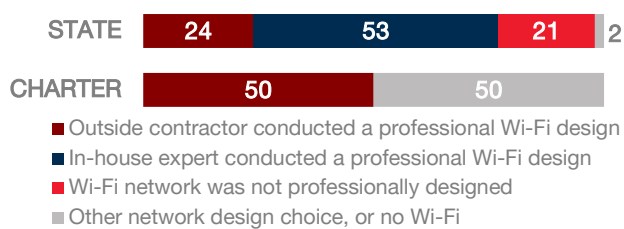
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

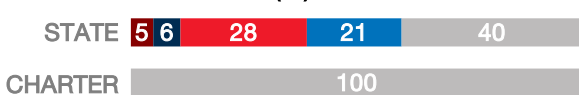


### NETWORK GEAR IN SCHOOLS

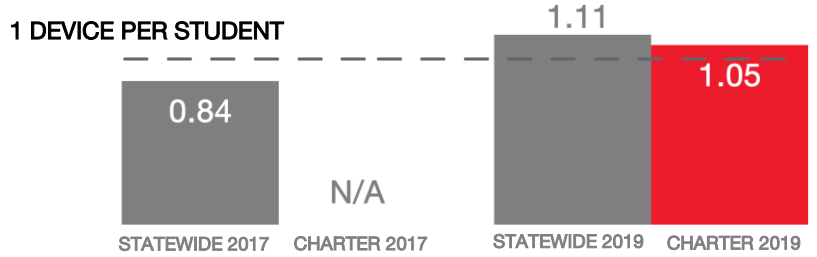
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

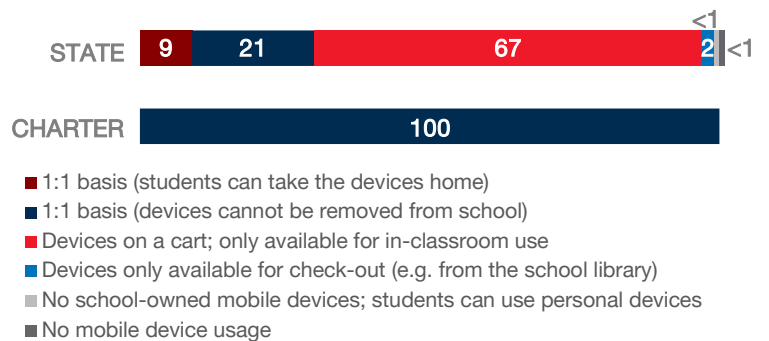


### COMPUTING DEVICES USED IN SCHOOLS

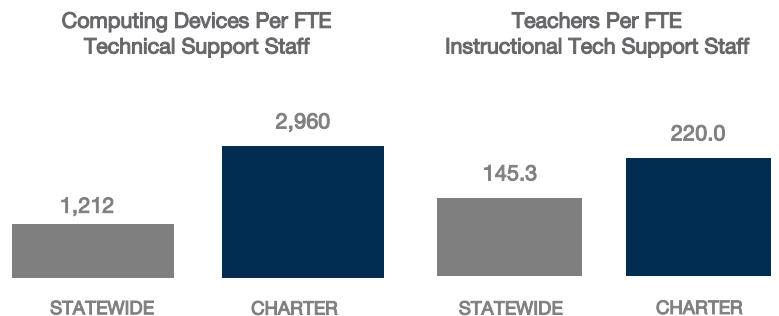
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	24	28	52	N/A
Laptops   Windows OS	1	4	5	N/A
Desktops   Mac	63	2	65	N/A
Laptops   Mac	1	1	2	N/A
Chromebooks   Google	370	24	394	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



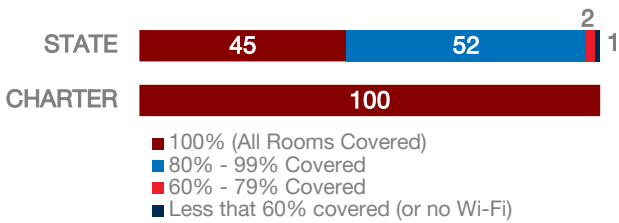
## Summit Academy

### CHARTER FACTS

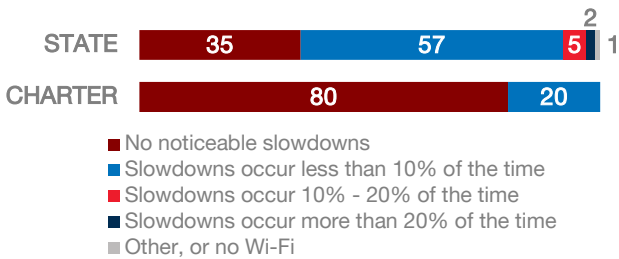
Area Population	N/A
Enrollment	2,944
Number of Schools	5
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

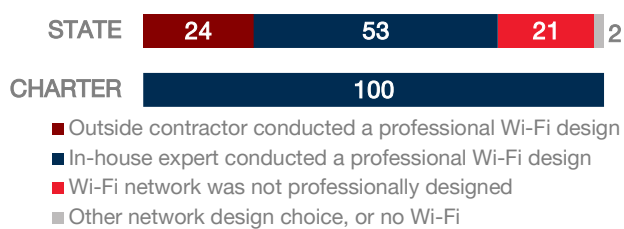
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

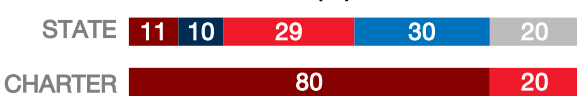


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

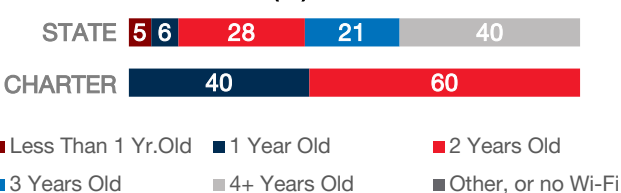


### NETWORK GEAR IN SCHOOLS

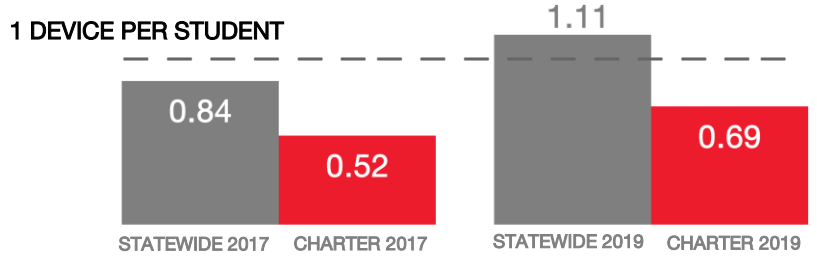
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

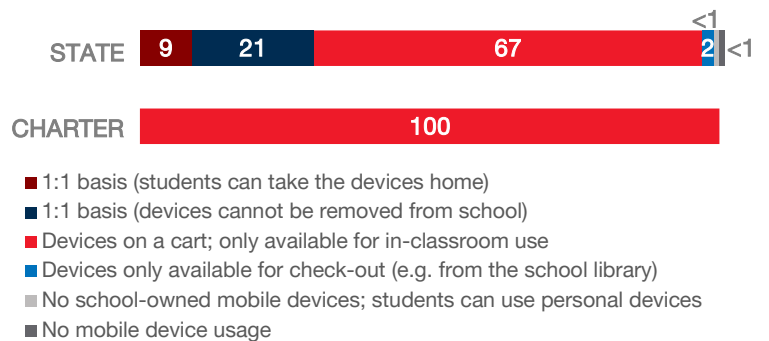


### COMPUTING DEVICES USED IN SCHOOLS

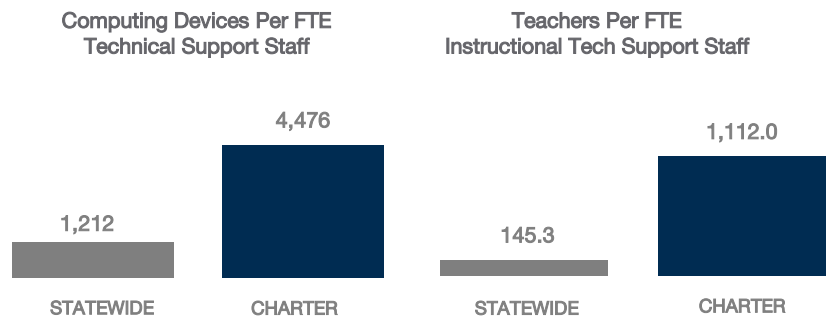
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	165	21	-59	-24%
Laptops   Windows OS	20	198	20	10%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	1,360	0	430	46%
Tablets   Windows	0	0	0	N/A
Tablets   Android	20	0	0	0%
Tablets   IOS	454	0	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



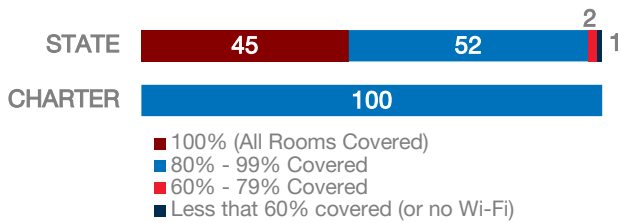
## Syracuse Arts Academy (K-6)

### CHARTER FACTS

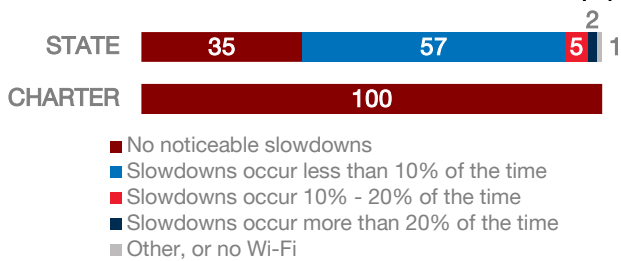
Area Population	N/A
Enrollment	1,775
Number of Schools	2
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

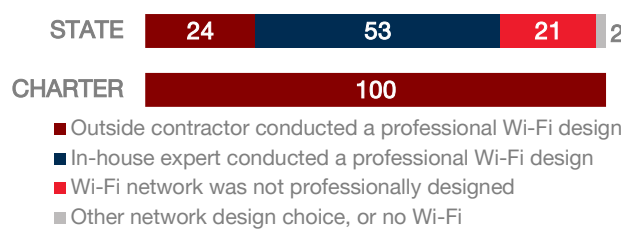
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

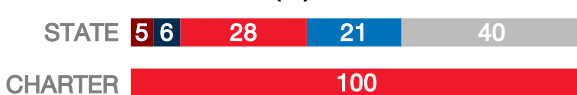


### NETWORK GEAR IN SCHOOLS

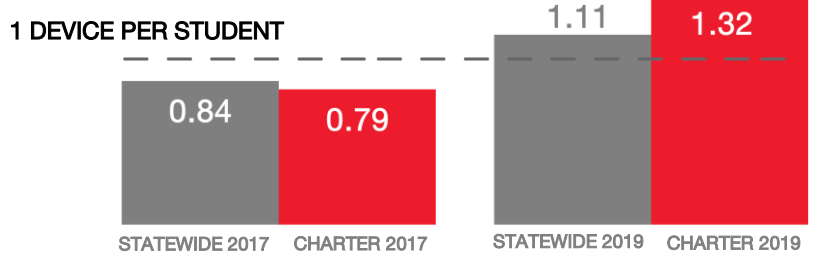
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

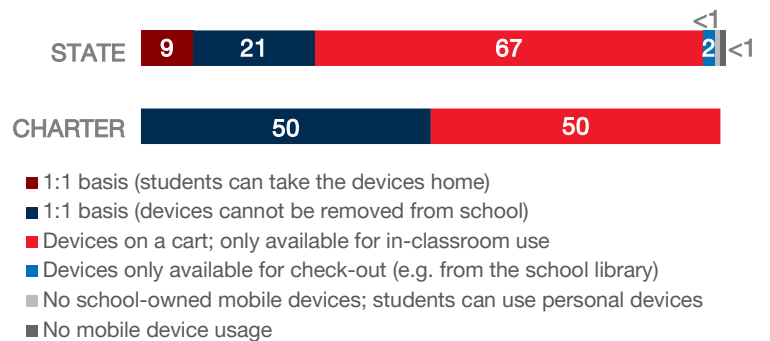


### COMPUTING DEVICES USED IN SCHOOLS

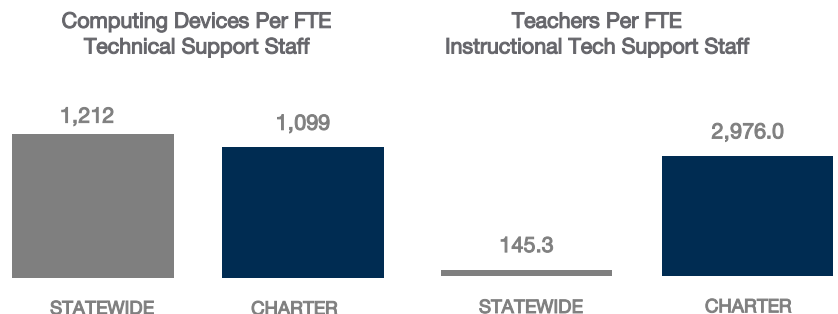
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	-32	-100%
Laptops   Windows OS	480	93	-387	-40%
Desktops   Mac	0	0	-4	-100%
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	1,212	0	1,212	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	652	90	112	18%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



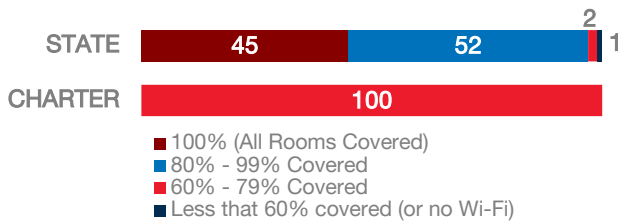
## Terra Academy

### CHARTER FACTS

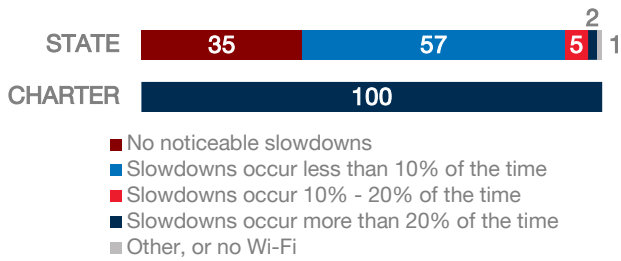
Area Population	N/A
Enrollment	631
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

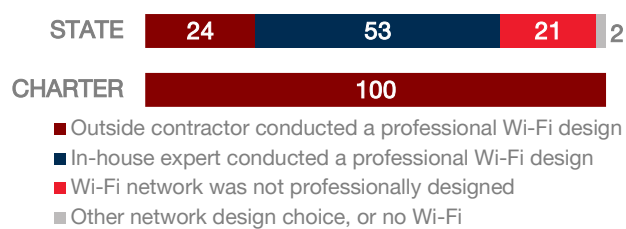
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

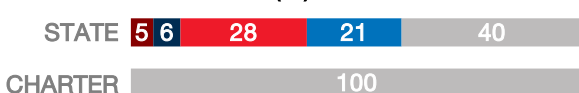


### NETWORK GEAR IN SCHOOLS

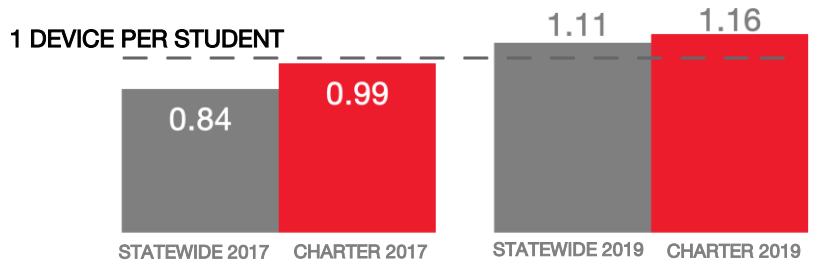
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

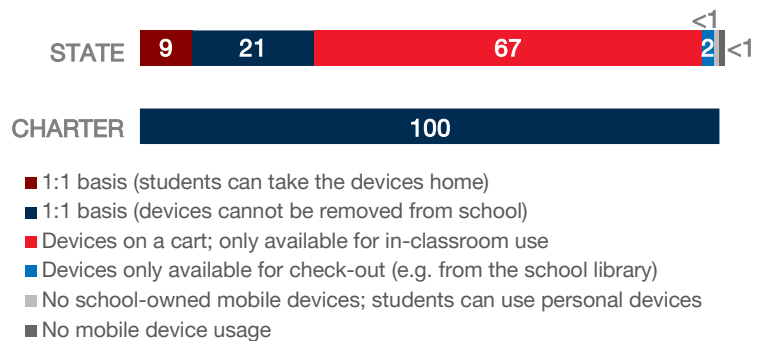


### COMPUTING DEVICES USED IN SCHOOLS

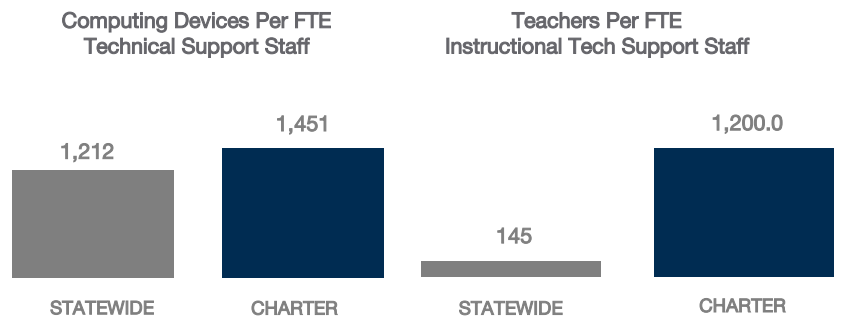
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	6	6	-18	-60%
Laptops   Windows OS	0	56	26	87%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	725	3	107	17%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	2	2	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





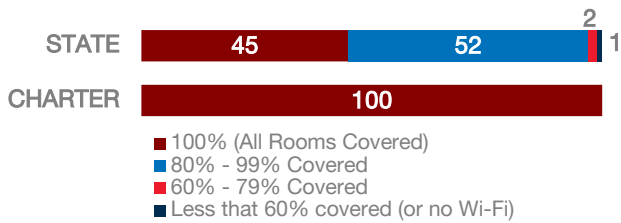
## The Early Light Academy at Daybreak

### CHARTER FACTS

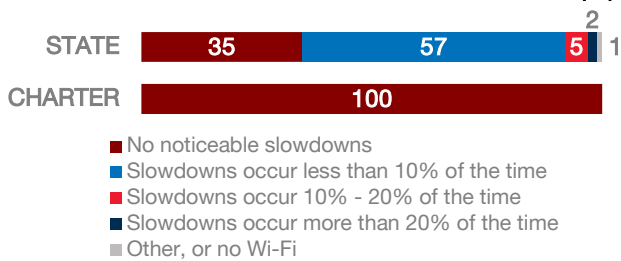
Area Population	N/A
Enrollment	1,006
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

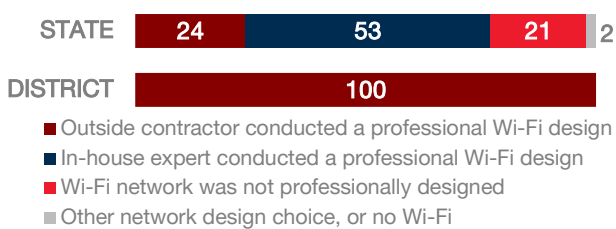
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

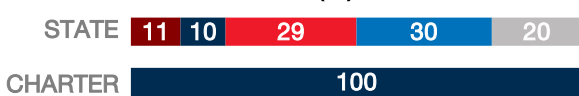


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

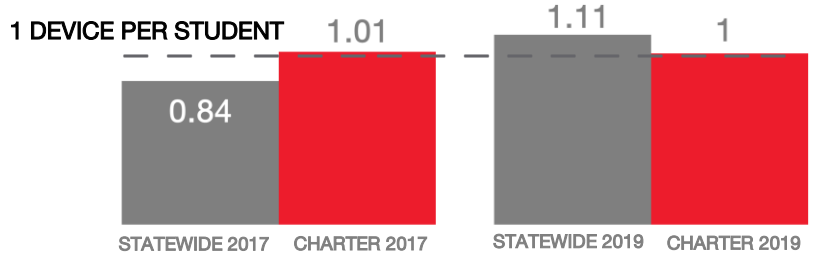
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

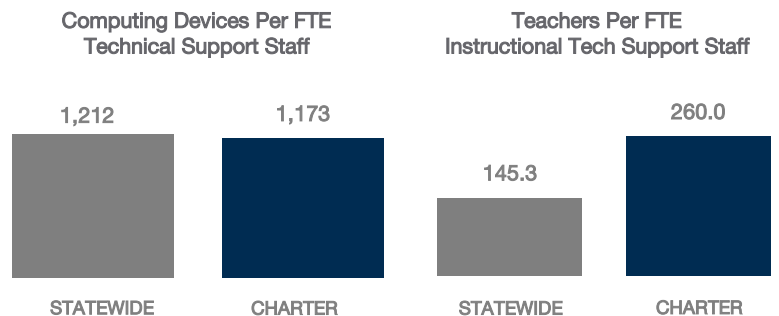
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	20	1	0	0%
Laptops   Windows OS	30	2	0	0%
Desktops   Mac	0	6	0	0%
Laptops   Mac	40	60	0	0%
Chromebooks   Google	620	15	0	0%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	300	50	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





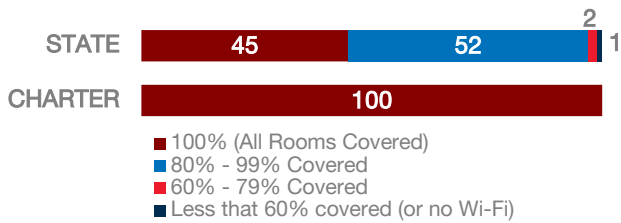
## The Ranches Academy

### CHARTER FACTS

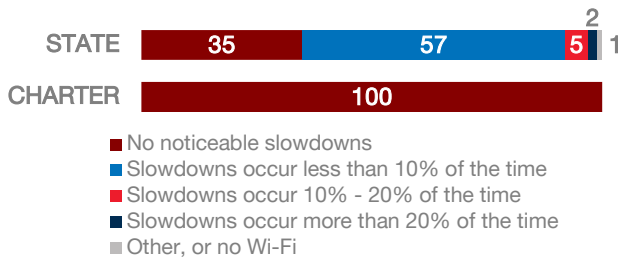
Area Population	N/A
Enrollment	365
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

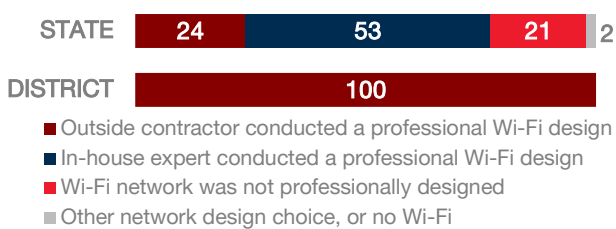
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

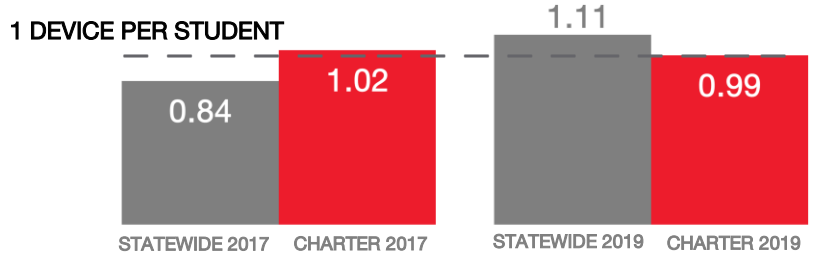
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

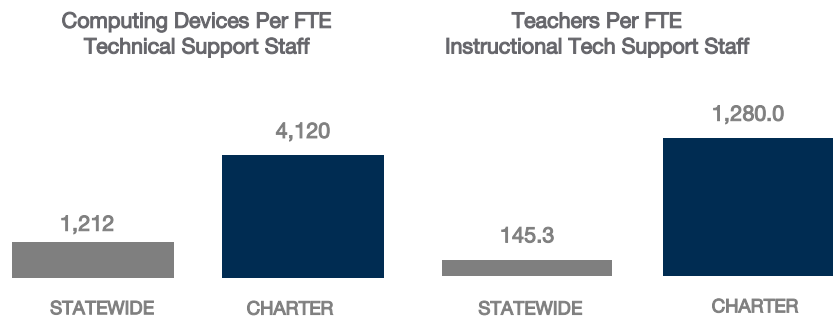
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	0	N/A
Laptops   Windows OS	2	3	3	150%
Desktops   Mac	31	20	23	82%
Laptops   Mac	0	5	2	67%
Chromebooks   Google	265	3	-21	-7%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	2	1	100%
Tablets   IOS	64	17	11	16%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



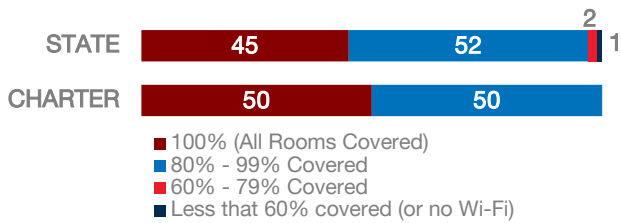
## Thomas Edison Charter School

### CHARTER FACTS

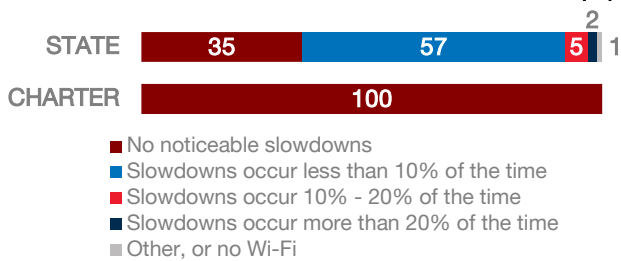
Area Population	N/A
Enrollment	1,145
Number of Schools	2
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

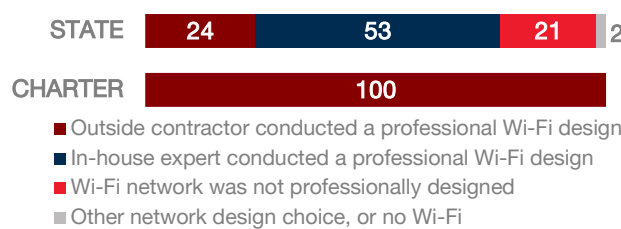
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

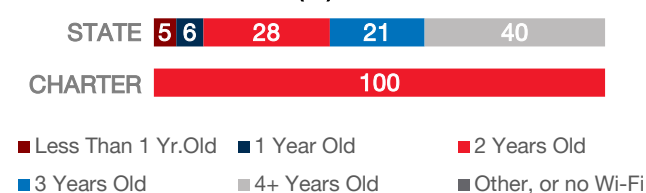


### NETWORK GEAR IN SCHOOLS

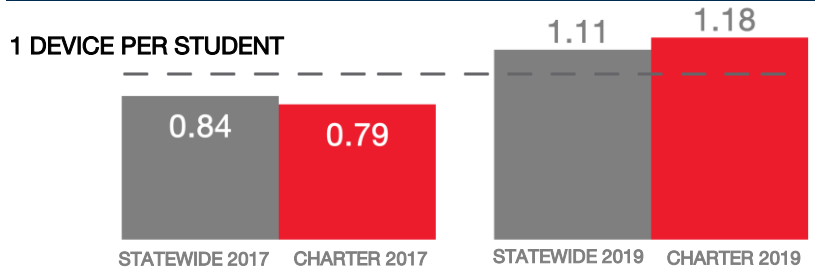
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

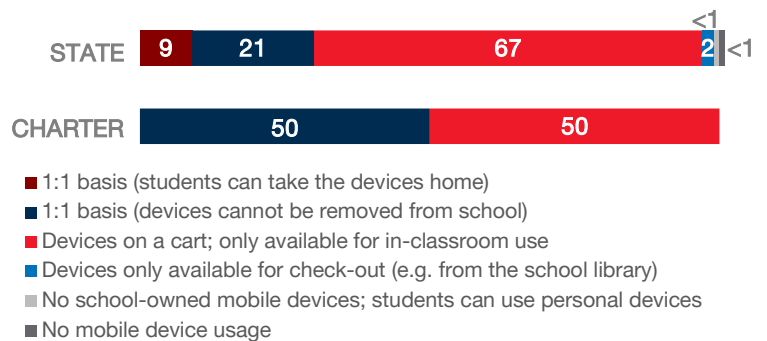


### COMPUTING DEVICES USED IN SCHOOLS

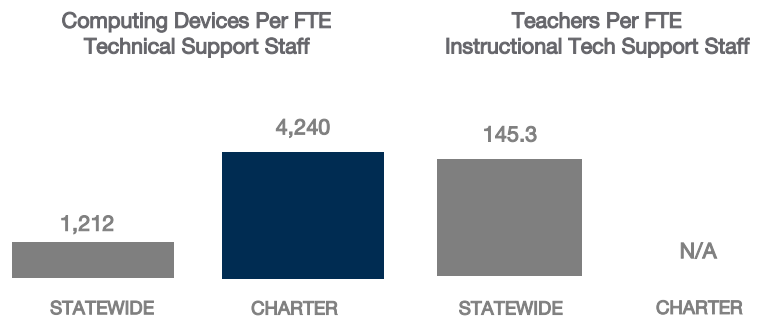
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	136	70	6	3%
Laptops   Windows OS	10	45	-30	-35%
Desktops   Mac	0	1	0	0%
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	1,200	0	-300	-20%
Tablets   Windows	0	0	-70	-100%
Tablets   Android	0	5	4	400%
Tablets   IOS	10	7	4	31%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



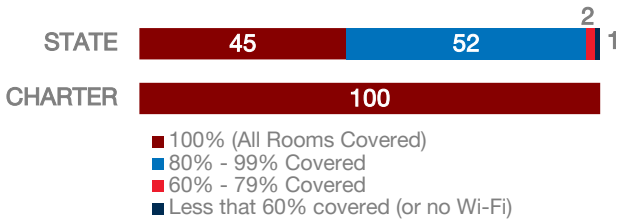
## Timpanogos Academy

### CHARTER FACTS

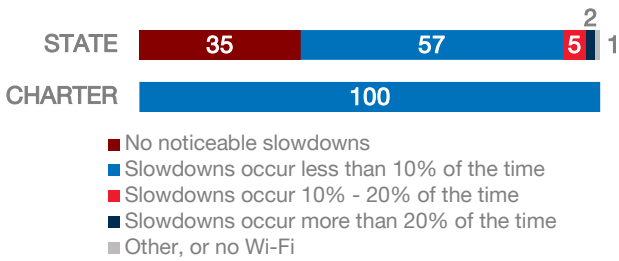
Area Population	N/A
Enrollment	509
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

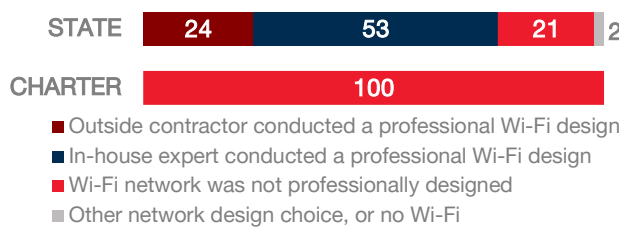
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

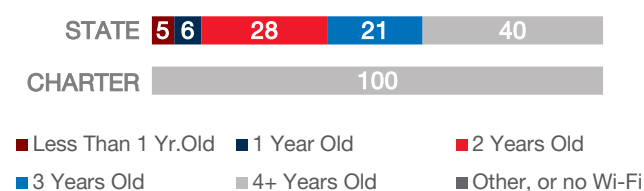


### NETWORK GEAR IN SCHOOLS

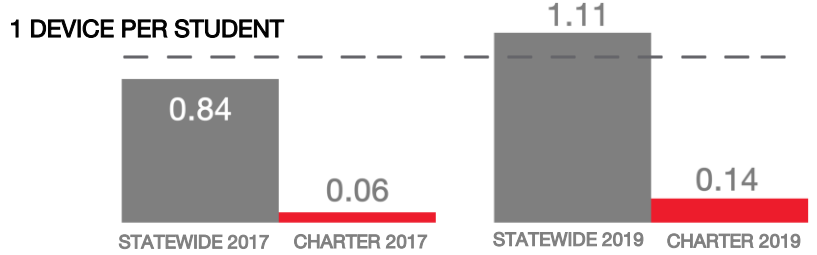
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

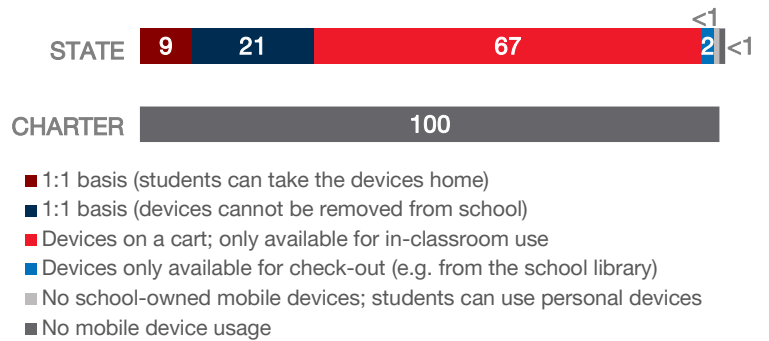


### COMPUTING DEVICES USED IN SCHOOLS

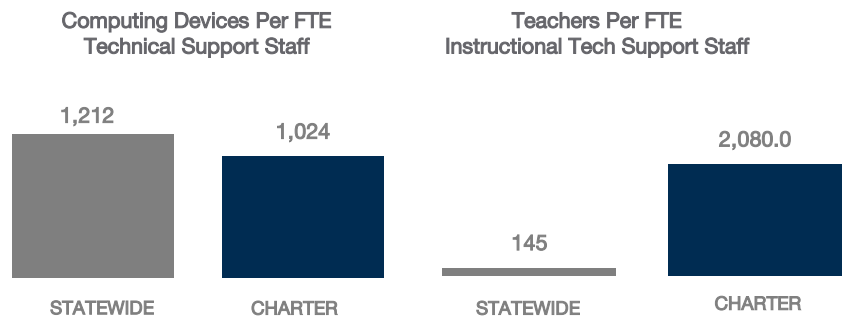
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	40	2	12	40%
Laptops   Windows OS	30	45	35	88%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	1	1	N/A
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	10	10	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



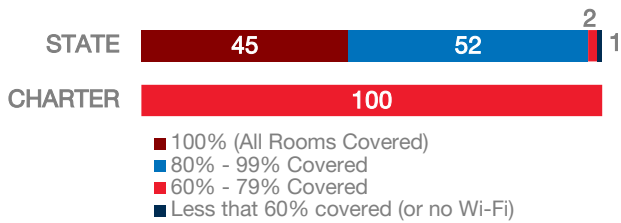
## Treeside Charter School

### CHARTER FACTS

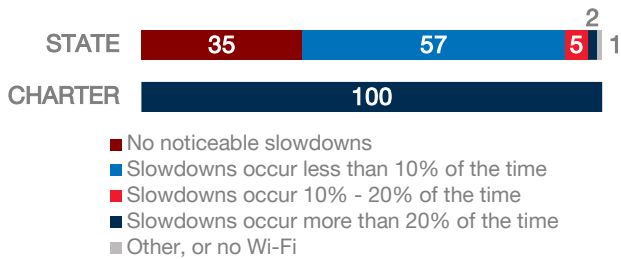
Area Population	N/A
Enrollment	461
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

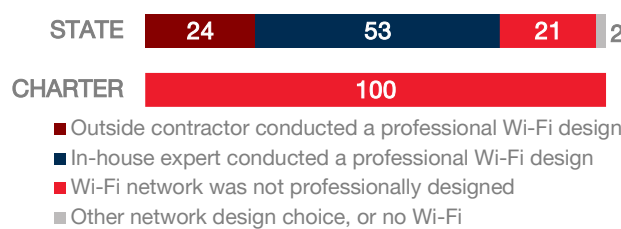
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

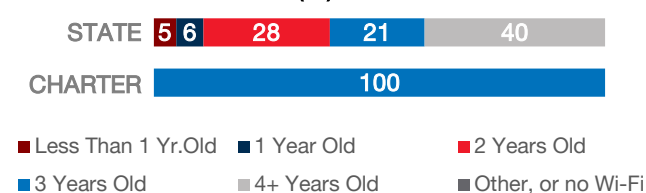


### NETWORK GEAR IN SCHOOLS

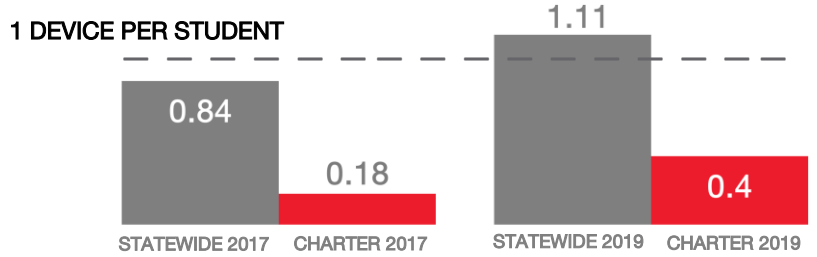
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

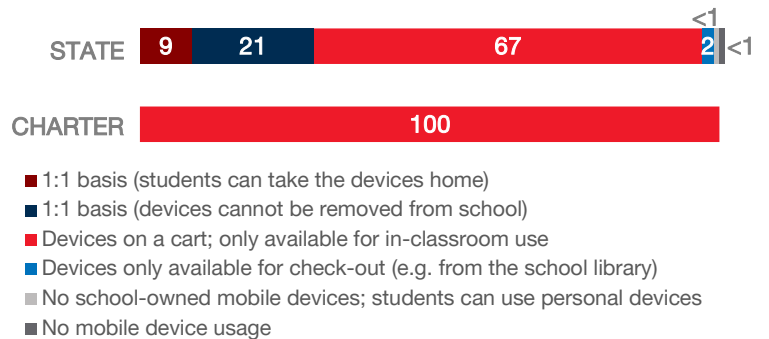


### COMPUTING DEVICES USED IN SCHOOLS

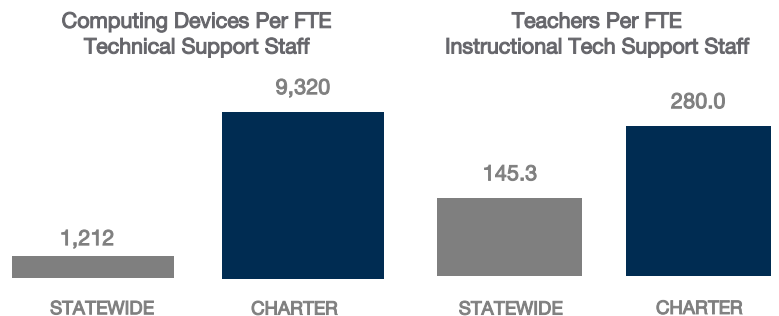
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	1	-21	-95%
Laptops   Windows OS	0	33	32	3200%
Desktops   Mac	0	1	0	0%
Laptops   Mac	0	1	1	N/A
Chromebooks   Google	180	0	105	140%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	5	12	12	240%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



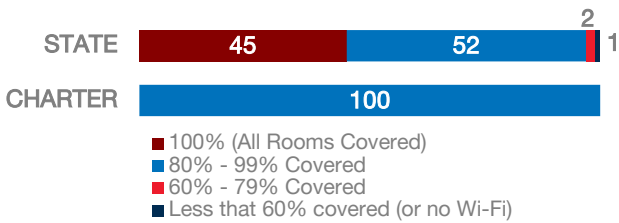
## Tuacahn High School for The Performing Arts

### CHARTER FACTS

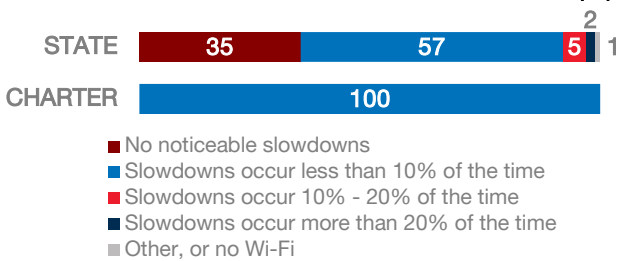
Area Population	N/A
Enrollment	398
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

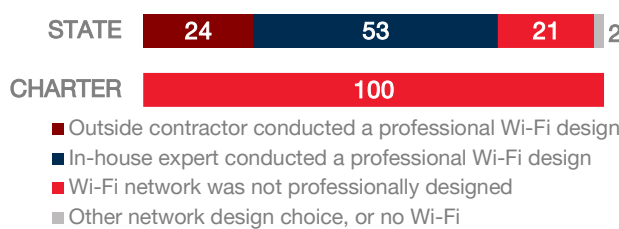
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

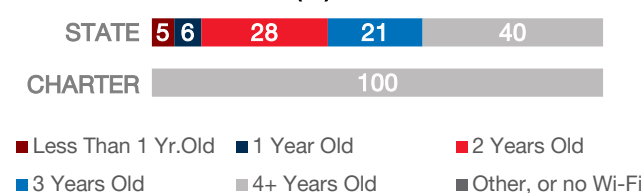


### NETWORK GEAR IN SCHOOLS

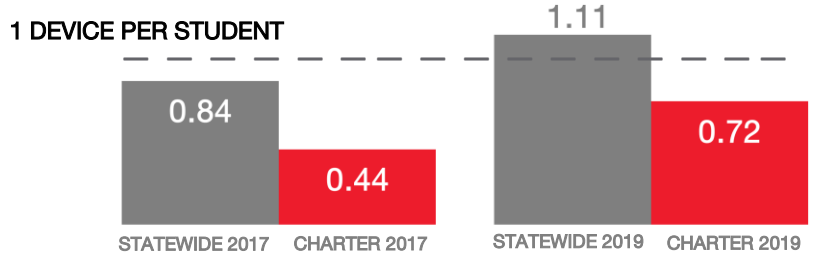
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

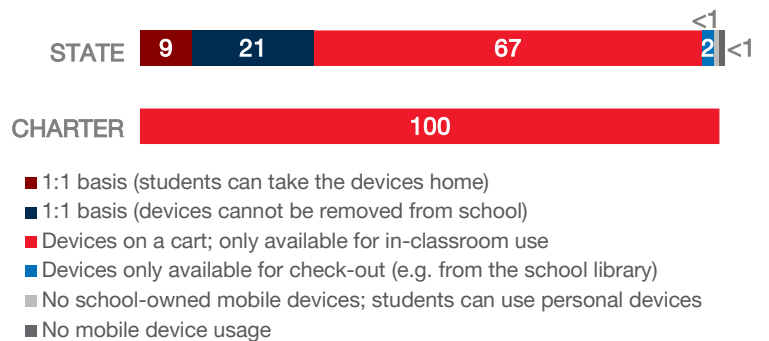


### COMPUTING DEVICES USED IN SCHOOLS

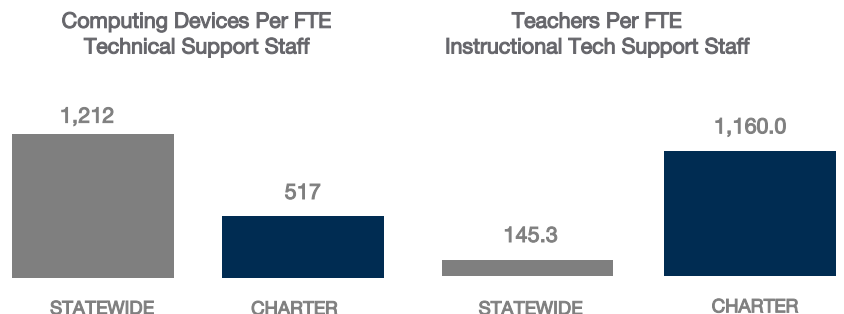
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	42	8	-17	-25%
Laptops   Windows OS	28	0	-10	-26%
Desktops   Mac	9	0	7	350%
Laptops   Mac	0	13	1	8%
Chromebooks   Google	200	0	118	144%
Tablets   Windows	0	14	14	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	8	1	-21	-70%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





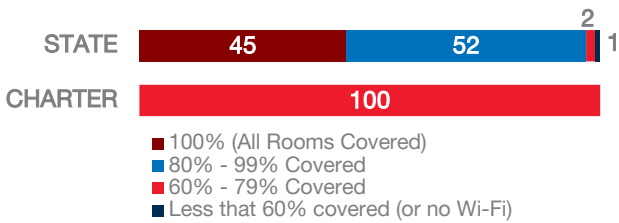
## Uintah River High School

### CHARTER FACTS

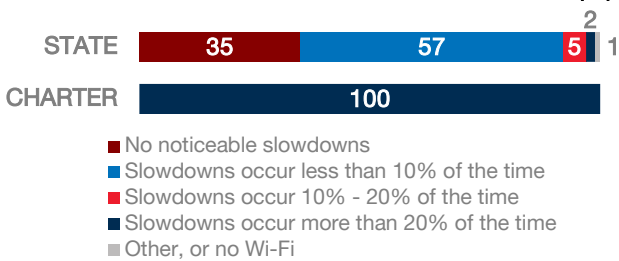
Area Population	N/A
Enrollment	75
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

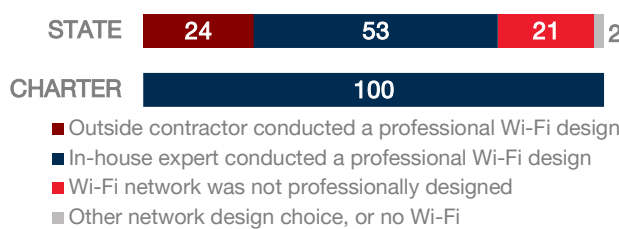
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

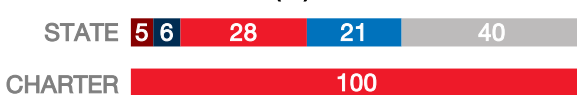


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

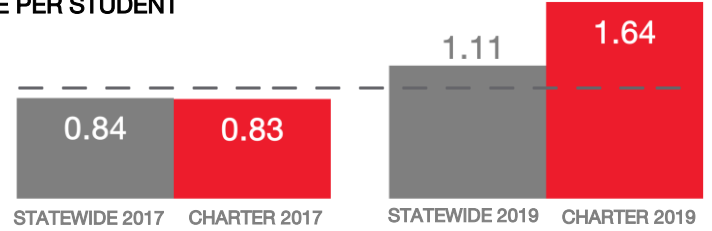


#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT

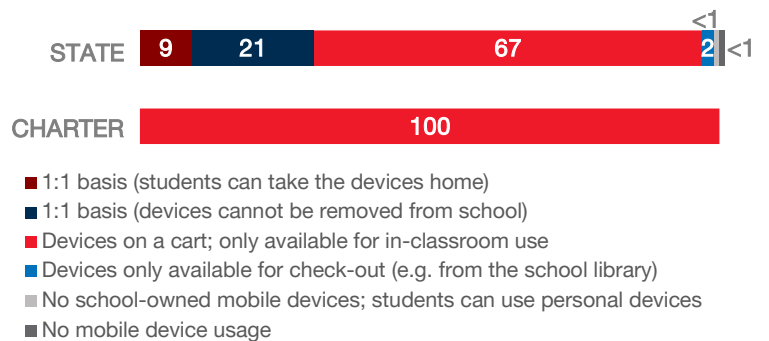


### COMPUTING DEVICES USED IN SCHOOLS

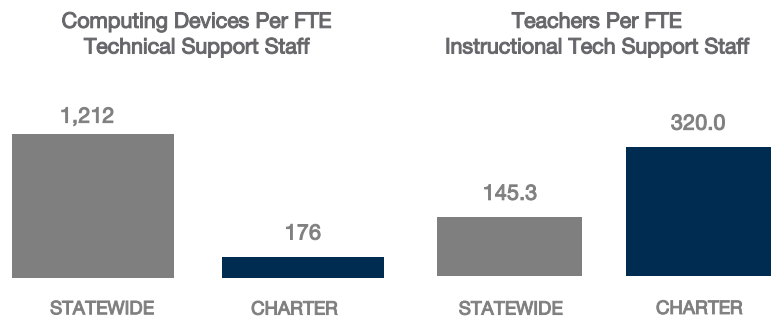
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	32	11	6	16%
Laptops   Windows OS	0	7	2	40%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	76	0	56	280%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	15	0	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





## Utah Career Path High School

### CHARTER FACTS

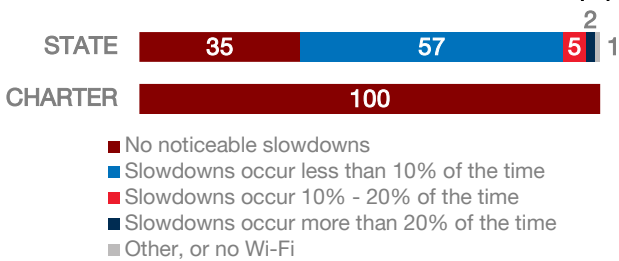
Area Population	N/A
Enrollment	171
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

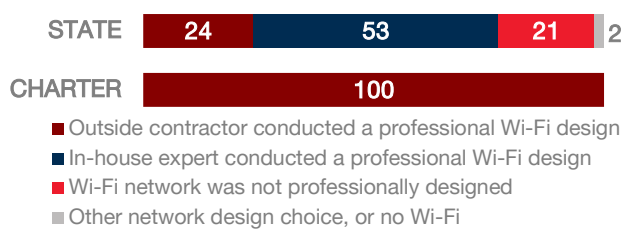
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

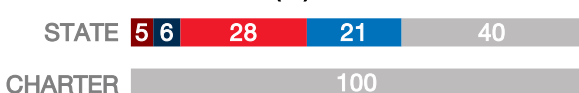


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

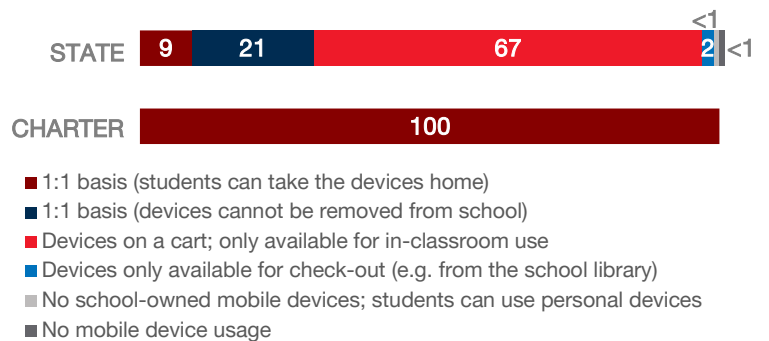


### COMPUTING DEVICES USED IN SCHOOLS

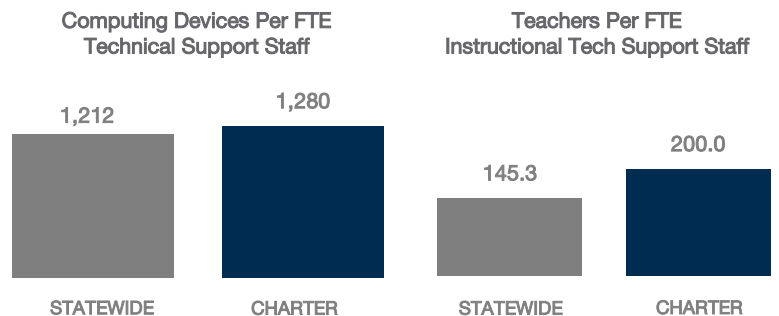
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	0	N/A
Laptops   Windows OS	0	1	0	0%
Desktops   Mac	0	2	0	0%
Laptops   Mac	171	18	-6	-3%
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



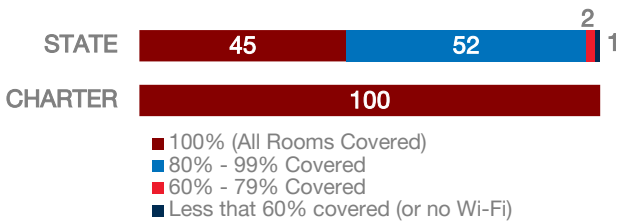
## Utah County Academy of Sciences

### CHARTER FACTS

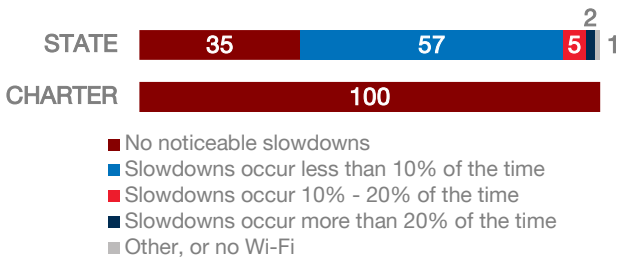
Area Population	N/A
Enrollment	607
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

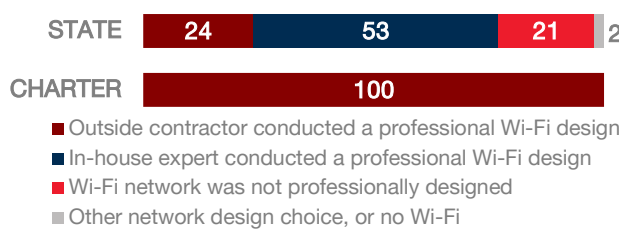
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

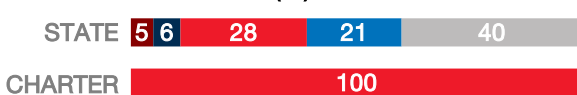


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)

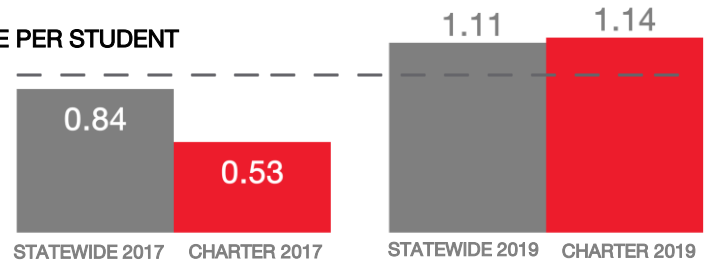


#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

#### 1 DEVICE PER STUDENT

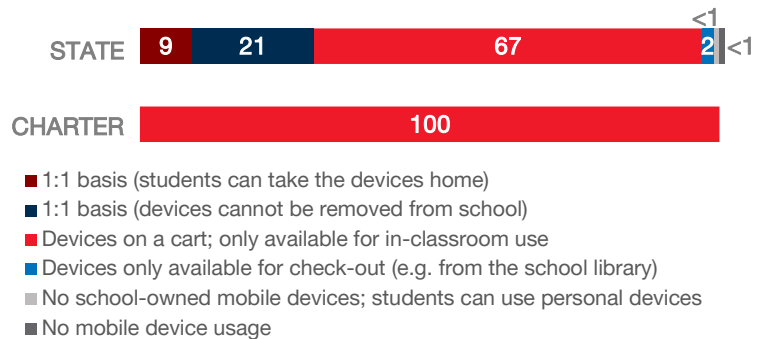


### COMPUTING DEVICES USED IN SCHOOLS

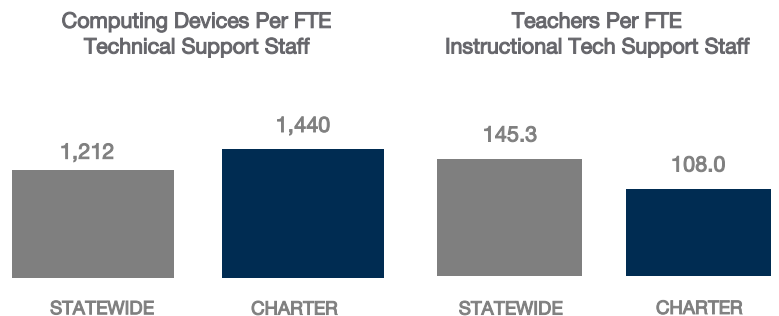
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	90	27	42	56%
Laptops   Windows OS	0	0	0	N/A
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	3	3	N/A
Chromebooks   Google	600	0	450	300%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



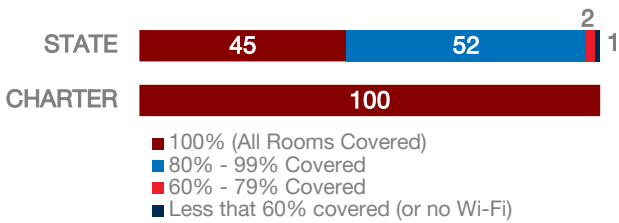
## Utah International Charter School

### CHARTER FACTS

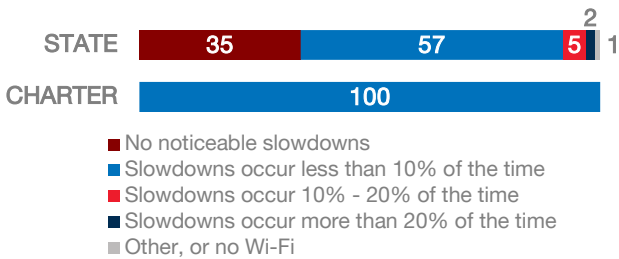
Area Population	N/A
Enrollment	230
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

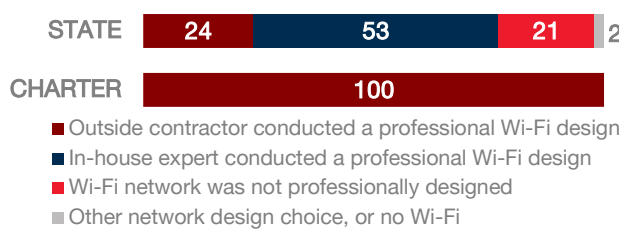
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

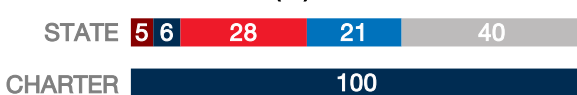


### NETWORK GEAR IN SCHOOLS

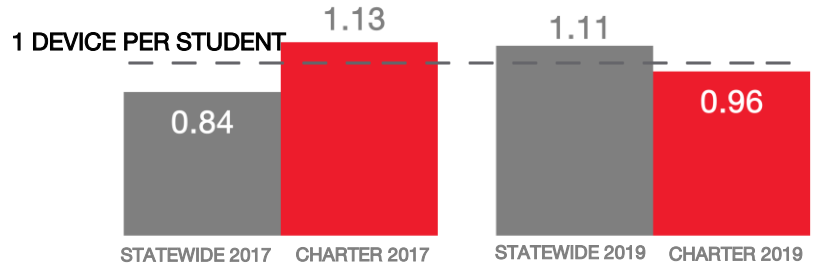
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

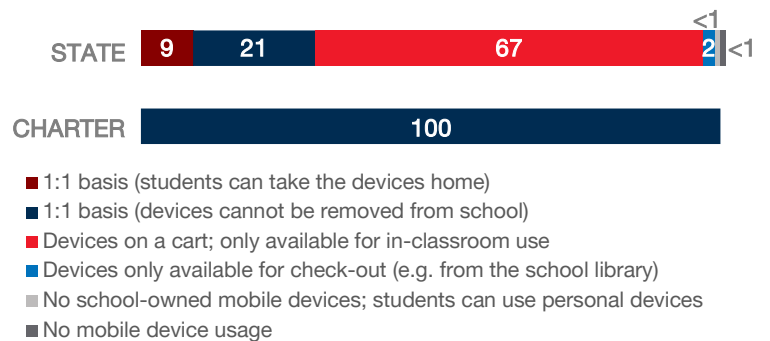


### COMPUTING DEVICES USED IN SCHOOLS

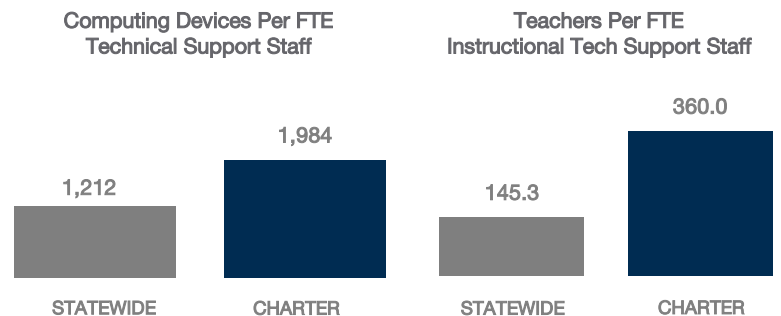
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	0	N/A
Laptops   Windows OS	20	5	-5	-17%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	20	0	0%
Chromebooks   Google	200	3	-47	-19%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



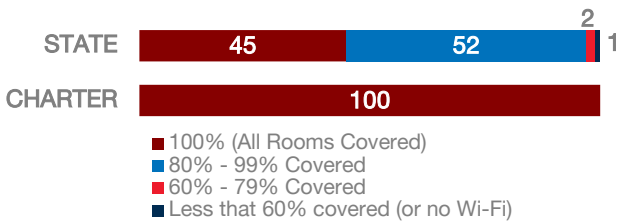
## Utah Military Academy

### CHARTER FACTS

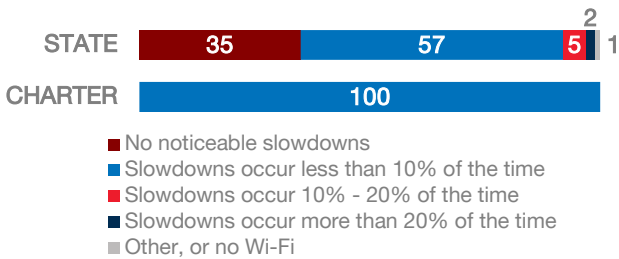
Area Population	N/A
Enrollment	1,058
Number of Schools	2
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

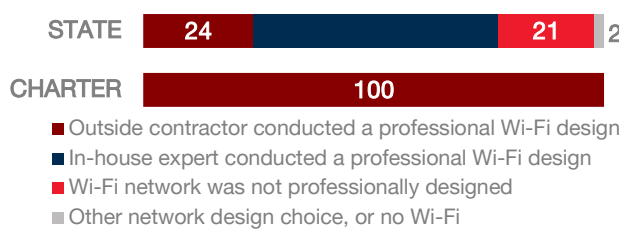
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

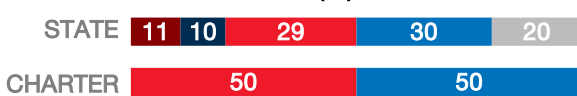


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

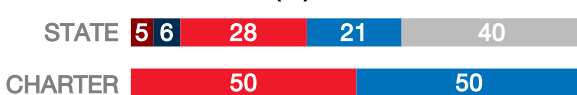


### NETWORK GEAR IN SCHOOLS

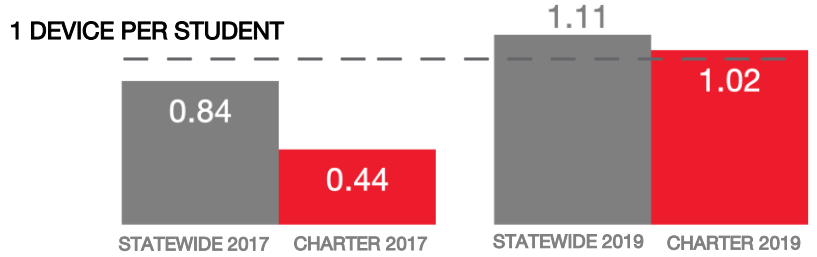
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

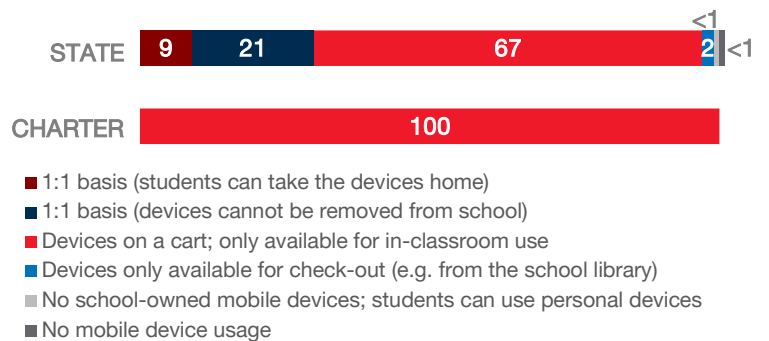


### COMPUTING DEVICES USED IN SCHOOLS

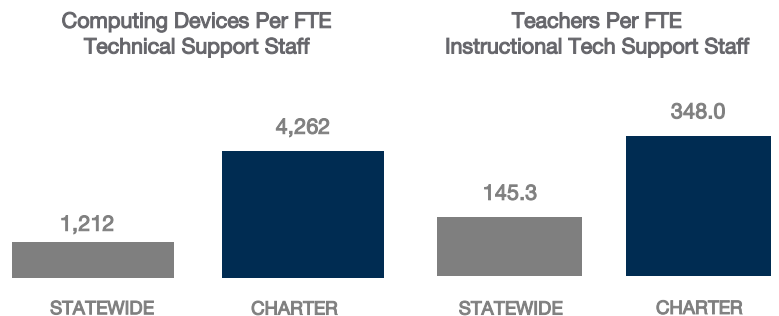
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	90	10	11	12%
Laptops   Windows OS	30	82	24	27%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	960	0	720	300%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



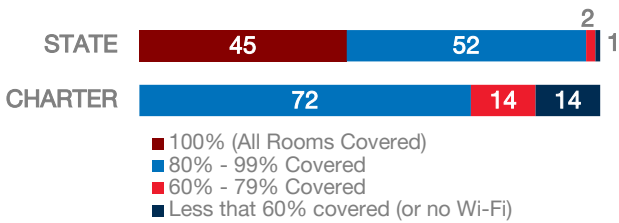
## Utah School for the Deaf and the Blind

### CHARTER FACTS

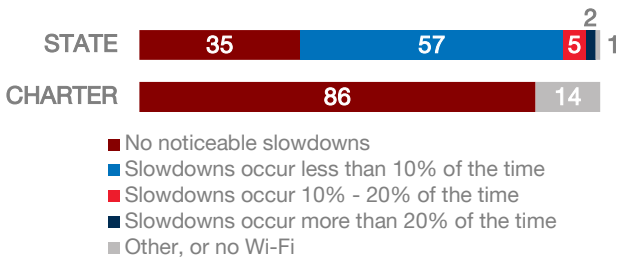
Area Population	N/A
Enrollment	297
Number of Schools	7
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

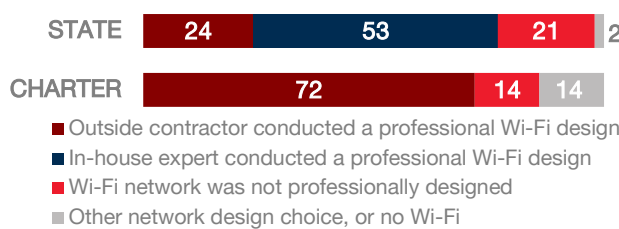
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

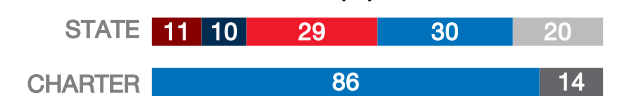


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

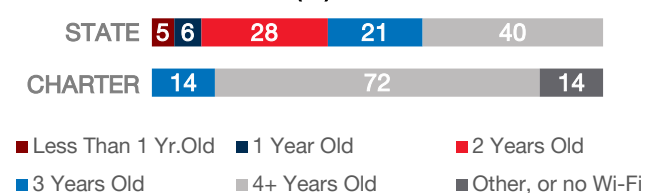


### NETWORK GEAR IN SCHOOLS

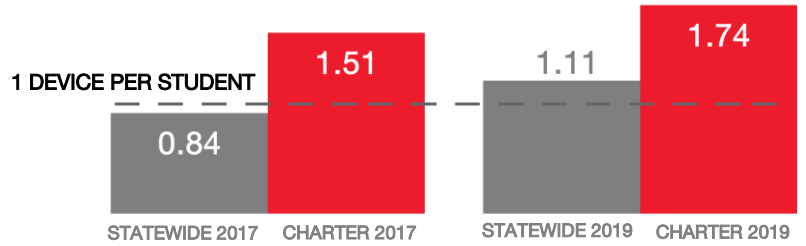
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

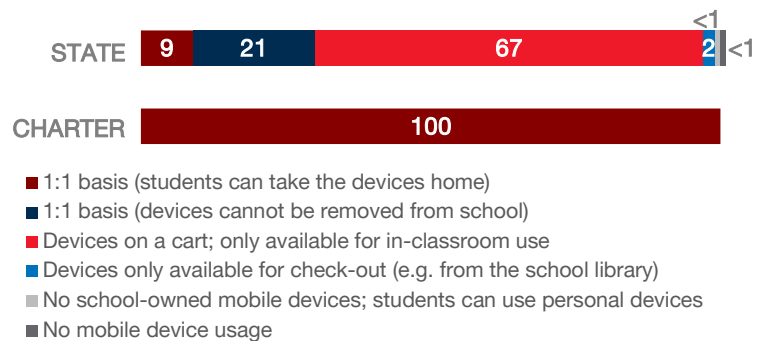


### COMPUTING DEVICES USED IN SCHOOLS

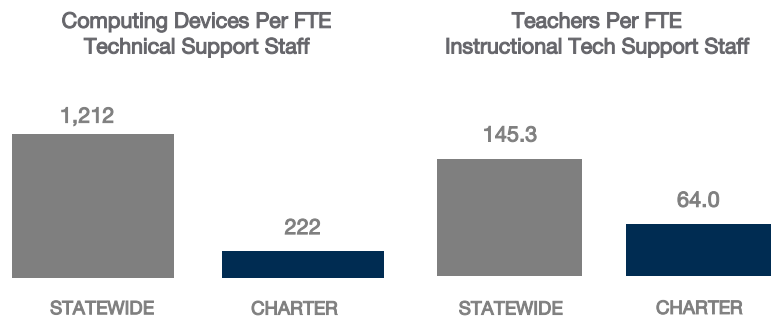
	Student Use	Teacher/ Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	147	95	-8	-3%
Laptops   Windows OS	54	150	39	24%
Desktops   Mac	5	16	5	31%
Laptops   Mac	0	114	37	48%
Chromebooks   Google	71	9	30	60%
Tablets   Windows	0	0	-4	-100%
Tablets   Android	5	0	-5	-50%
Tablets   IOS	226	213	-115	-21%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





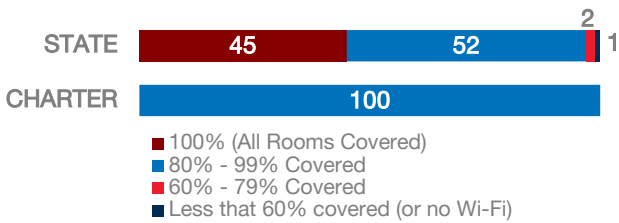
## Valley Academy

### CHARTER FACTS

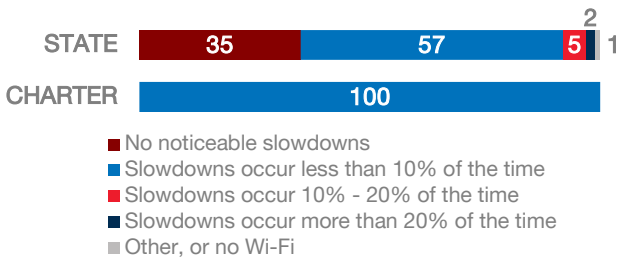
Area Population	N/A
Enrollment	446
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

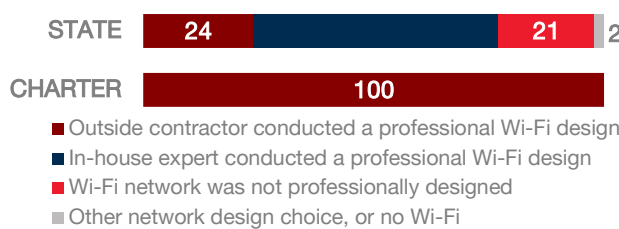
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

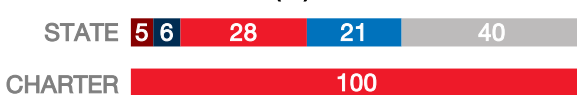


### NETWORK GEAR IN SCHOOLS

#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

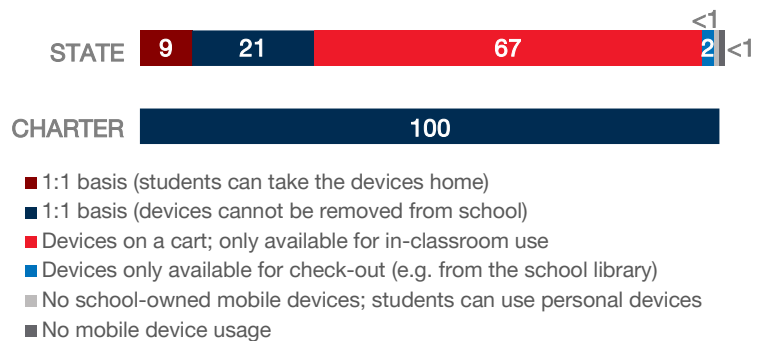


### COMPUTING DEVICES USED IN SCHOOLS

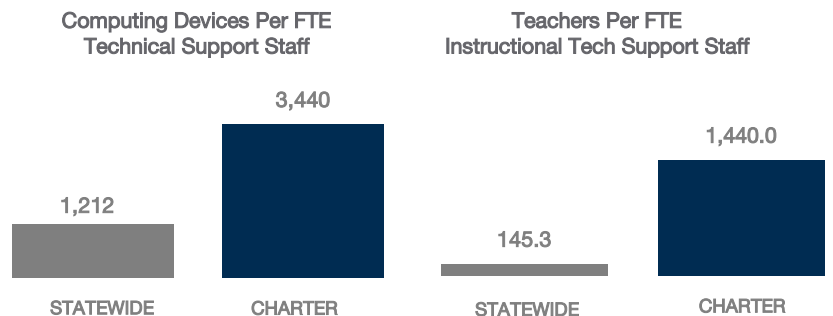
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	35	30	600%
Laptops   Windows OS	5	10	15	N/A
Desktops   Mac	0	0	-23	-100%
Laptops   Mac	0	4	4	N/A
Chromebooks   Google	0	0	-192	-100%
Tablets   Windows	23	160	183	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	15	0	-145	-91%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





## Vanguard Academy

### CHARTER FACTS

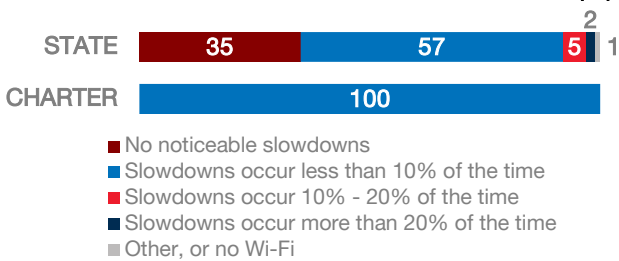
Area Population	N/A
Enrollment	468
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

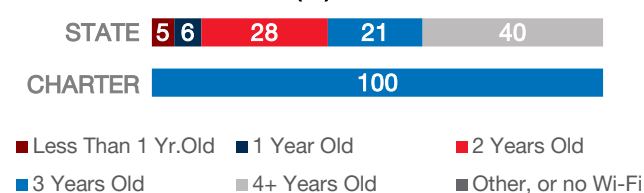


### NETWORK GEAR IN SCHOOLS

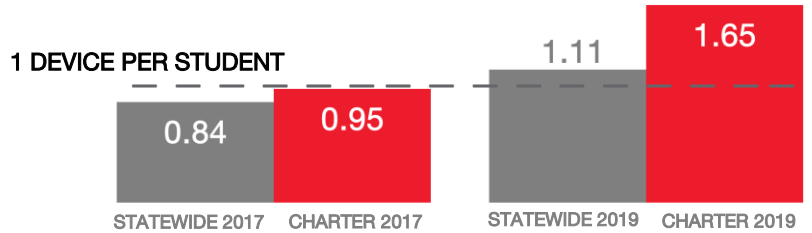
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

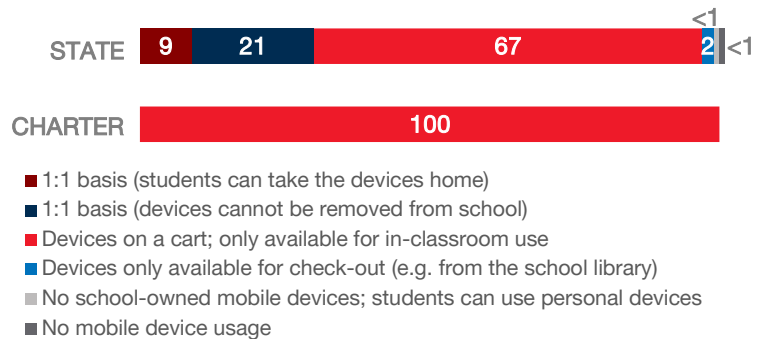


### COMPUTING DEVICES USED IN SCHOOLS

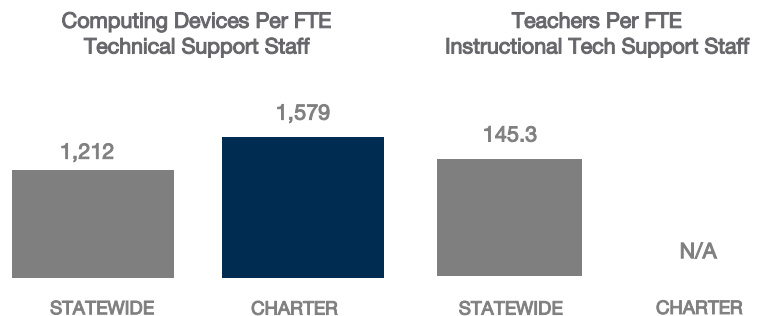
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	60	8	0	0%
Laptops   Windows OS	94	42	68	100%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	60	2	30	94%
Chromebooks   Google	500	0	200	67%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	60	3	63	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



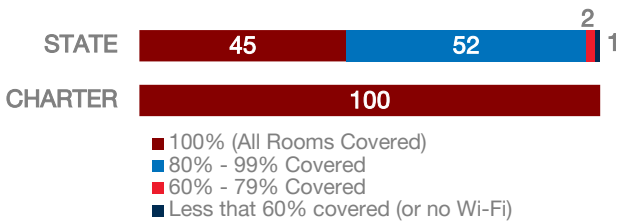
## Venture Academy

### CHARTER FACTS

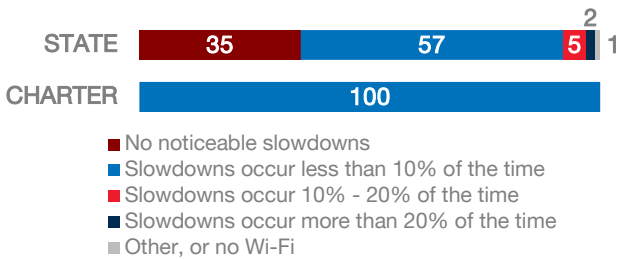
Area Population	N/A
Enrollment	792
Number of Schools	2
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

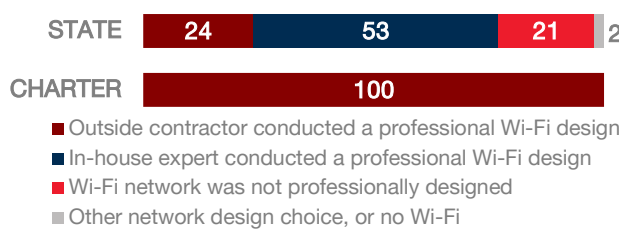
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)

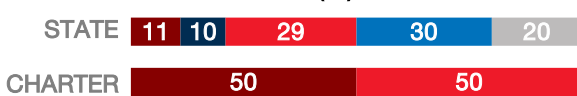


#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

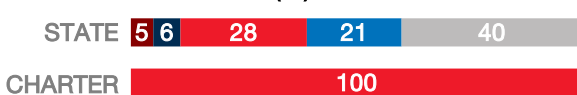


### NETWORK GEAR IN SCHOOLS

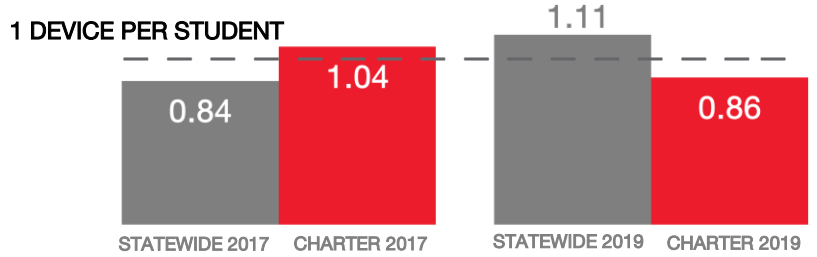
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

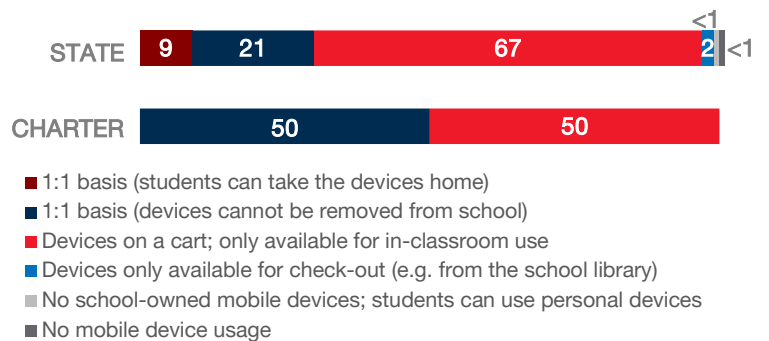


### COMPUTING DEVICES USED IN SCHOOLS

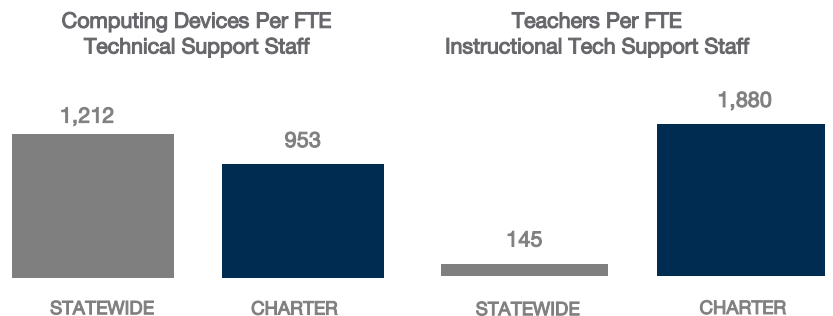
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	58	54	-63	-36%
Laptops   Windows OS	0	3	-4	-57%
Desktops   Mac	0	2	-16	-89%
Laptops   Mac	0	1	1	N/A
Chromebooks   Google	625	13	-67	-10%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	6	6	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



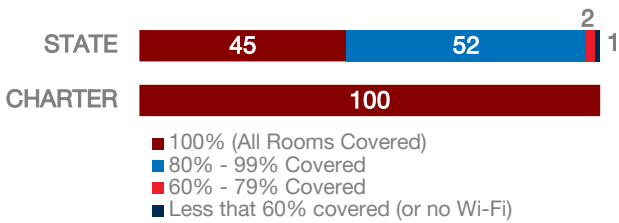
## Vista At Entrada School of Performing Arts & Technology

### CHARTER FACTS

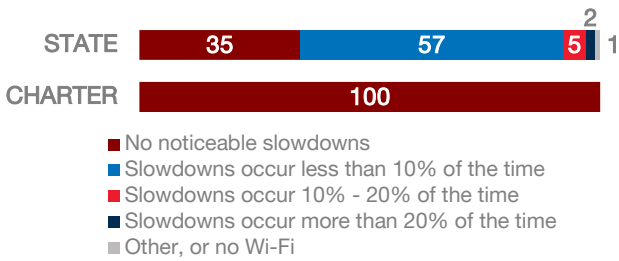
Area Population	N/A
Enrollment	935
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

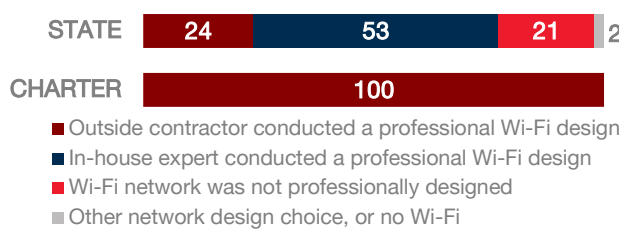
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

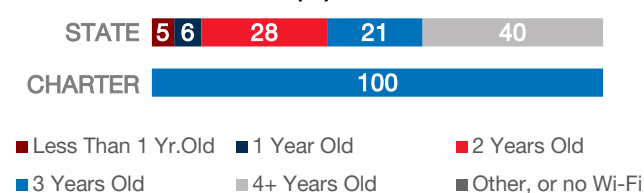


### NETWORK GEAR IN SCHOOLS

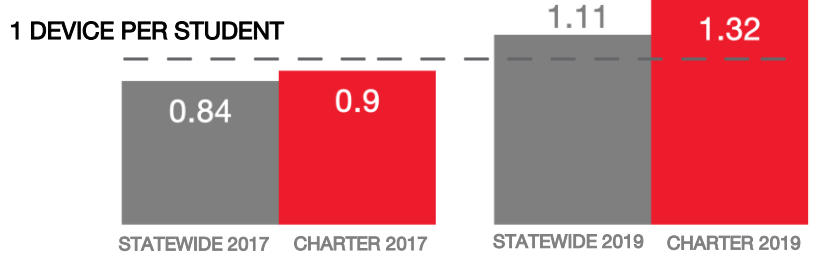
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

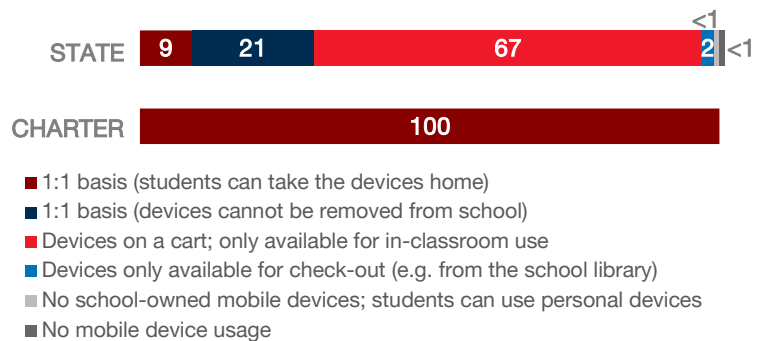


### COMPUTING DEVICES USED IN SCHOOLS

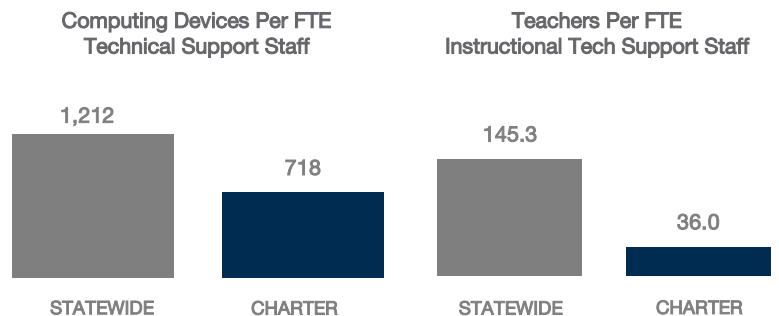
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	30	4	32	1600%
Laptops   Windows OS	0	5	5	N/A
Desktops   Mac	60	9	0	0%
Laptops   Mac	30	75	6	6%
Chromebooks   Google	1,028	10	400	63%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	86	10	7	8%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



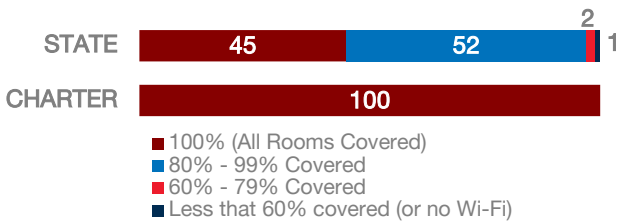
## Voyage Academy

### CHARTER FACTS

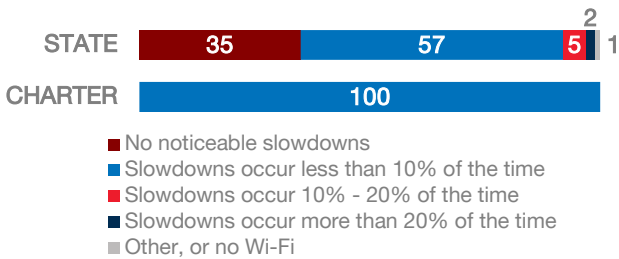
Area Population	N/A
Enrollment	532
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

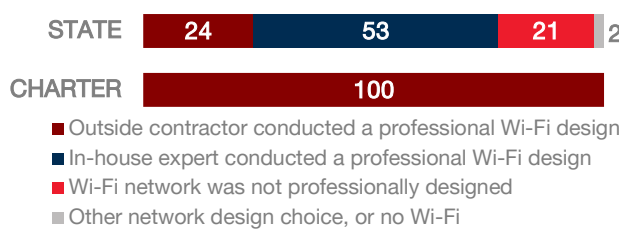
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

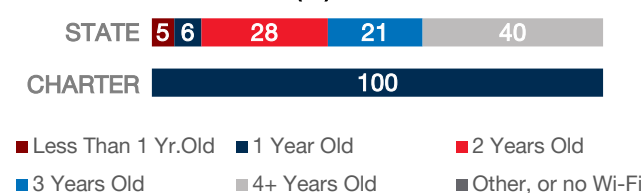


### NETWORK GEAR IN SCHOOLS

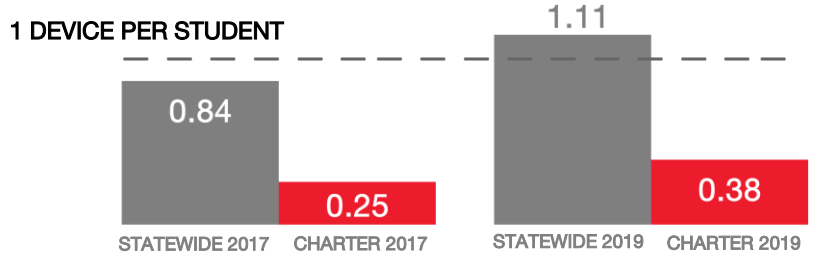
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

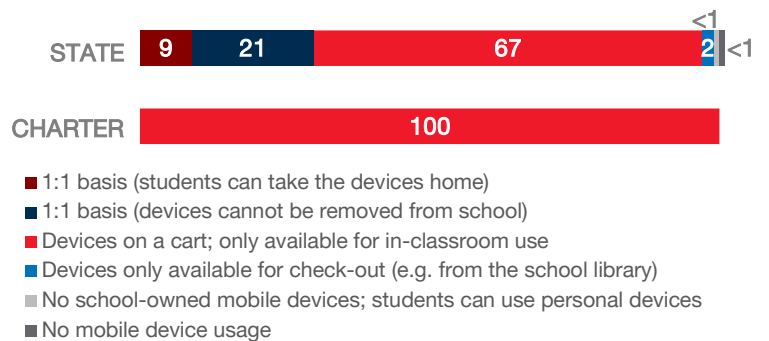


### COMPUTING DEVICES USED IN SCHOOLS

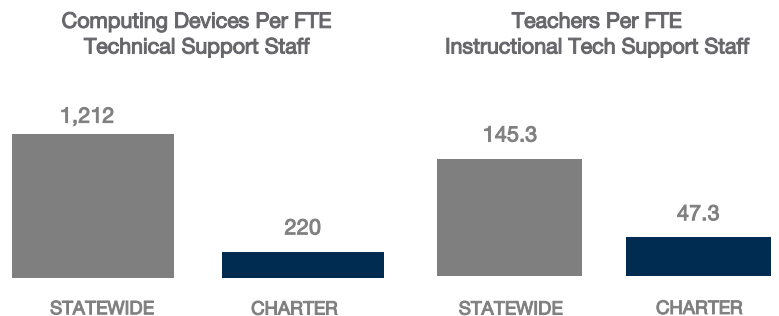
Device/OS	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	36	5	-9	-18%
Laptops   Windows OS	90	40	50	63%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	30	0	15	100%
Tablets   IOS	44	2	31	207%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



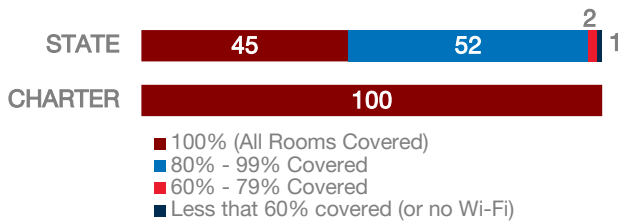
## Walden School of Liberal Arts

### CHARTER FACTS

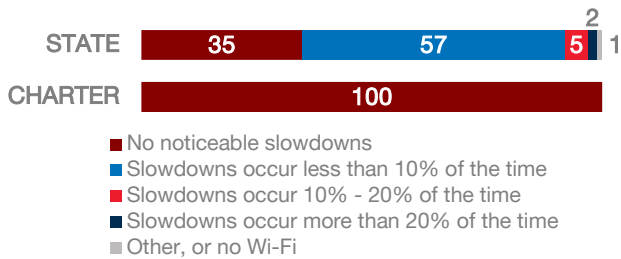
Area Population	N/A
Enrollment	448
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

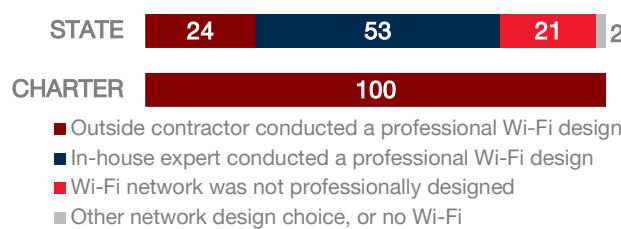
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

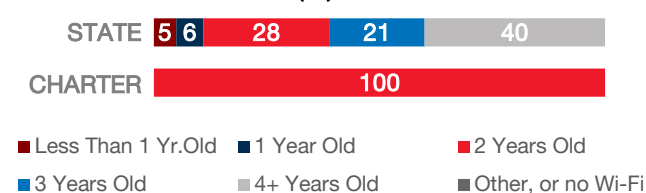


### NETWORK GEAR IN SCHOOLS

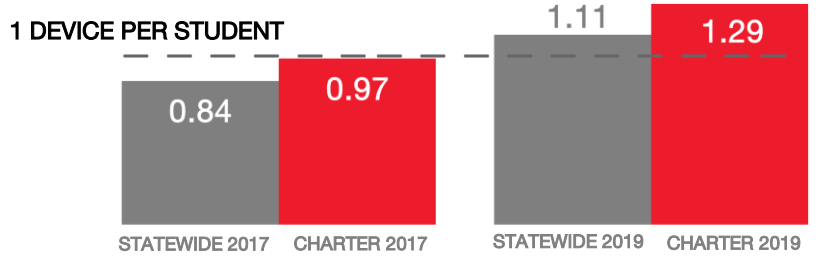
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

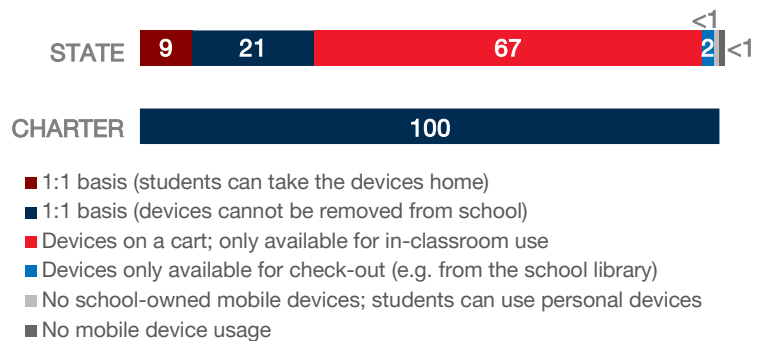


### COMPUTING DEVICES USED IN SCHOOLS

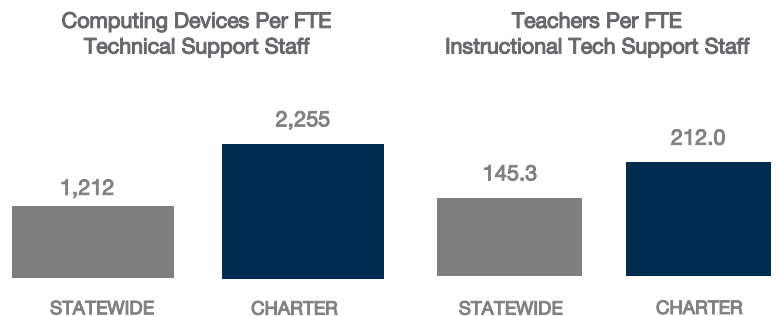
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	1	0	0%
Laptops   Windows OS	0	3	1	50%
Desktops   Mac	0	1	-14	-93%
Laptops   Mac	0	30	0	0%
Chromebooks   Google	520	5	125	31%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	-25	-100%
Tablets   IOS	30	0	20	200%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





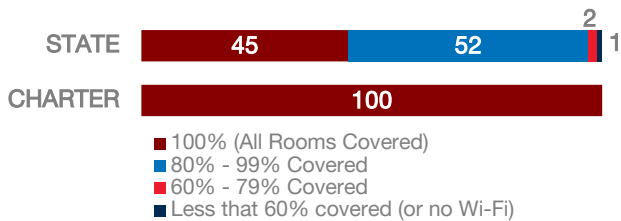
## Wallace Stegner Academy

### CHARTER FACTS

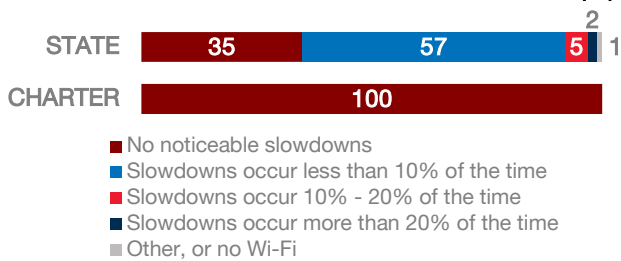
Area Population	N/A
Enrollment	700
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

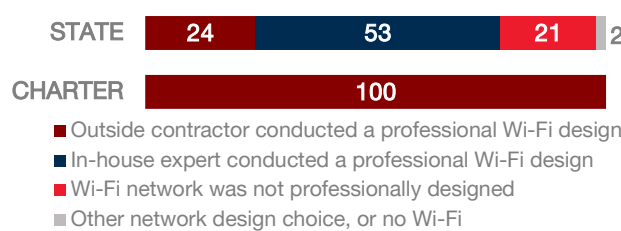
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED



### NETWORK GEAR IN SCHOOLS

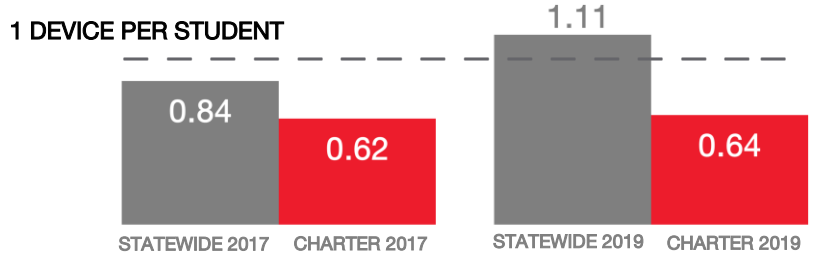
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

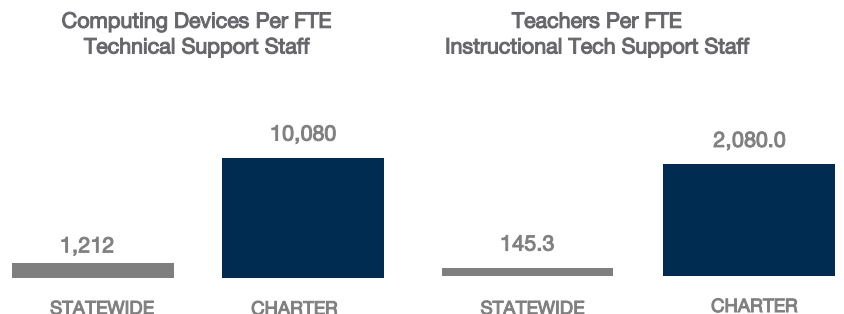
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	-2	-100%
Laptops   Windows OS	0	0	0	N/A
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	42	15	56%
Chromebooks   Google	450	3	100	28%
Tablets   Windows	0	3	3	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	6	2	50%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





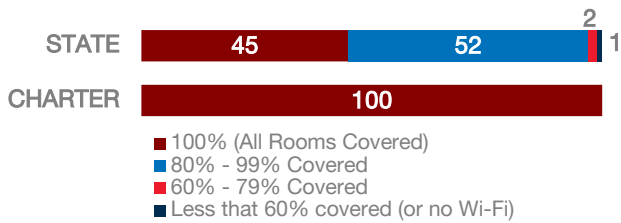
## Wasatch Peak Academy

### CHARTER FACTS

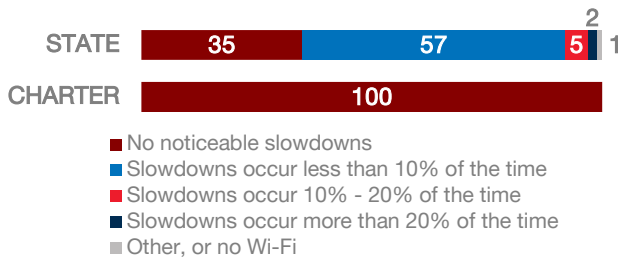
Area Population	N/A
Enrollment	428
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

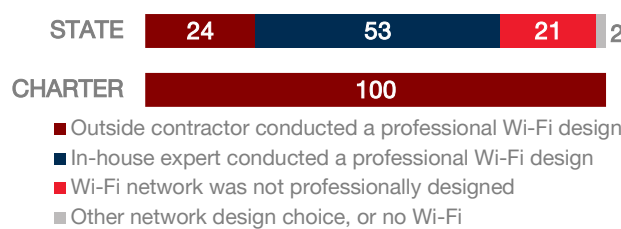
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

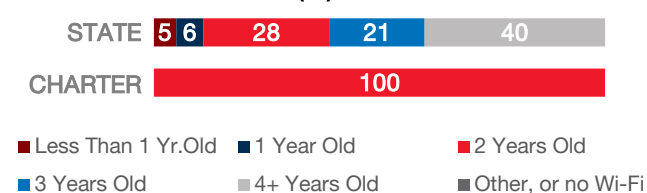


### NETWORK GEAR IN SCHOOLS

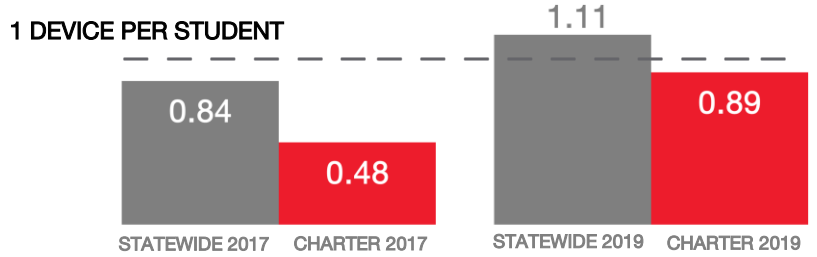
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT



### COMPUTING DEVICES USED IN SCHOOLS

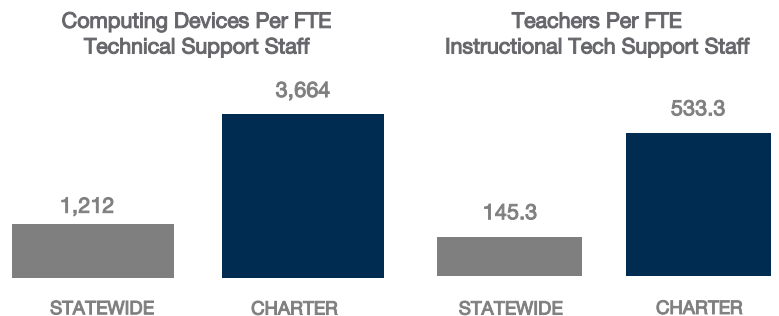
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	6	1	-23	-77%
Laptops   Windows OS	0	45	-80	-64%
Desktops   Mac	0	0	0	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	307	0	247	412%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	-4	-100%
Tablets   IOS	70	29	75	313%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



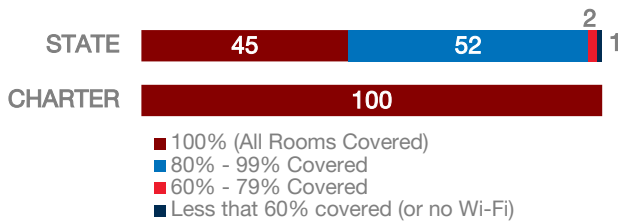
## Wasatch Waldorf Charter School

### CHARTER FACTS

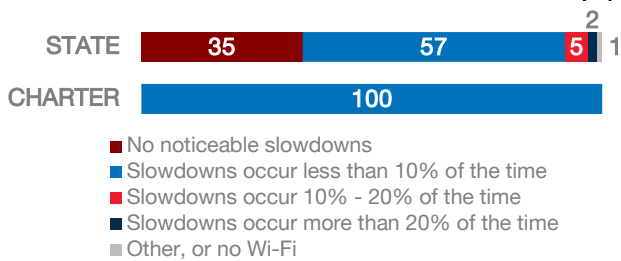
Area Population	N/A
Enrollment	652
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

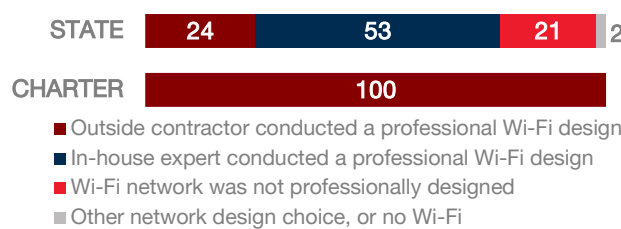
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

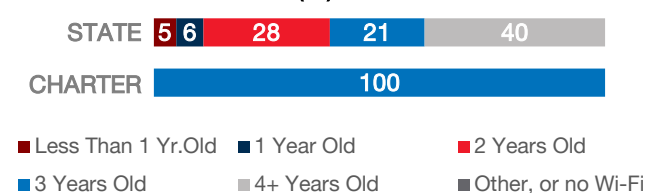


### NETWORK GEAR IN SCHOOLS

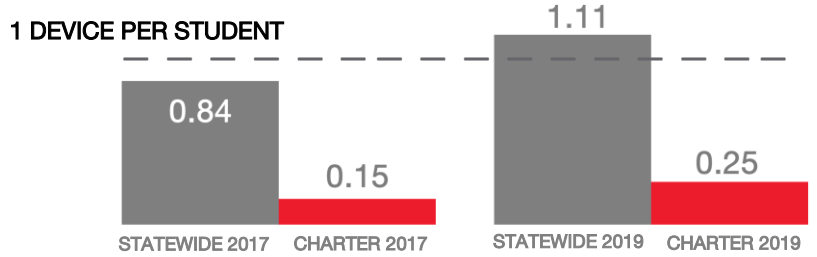
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

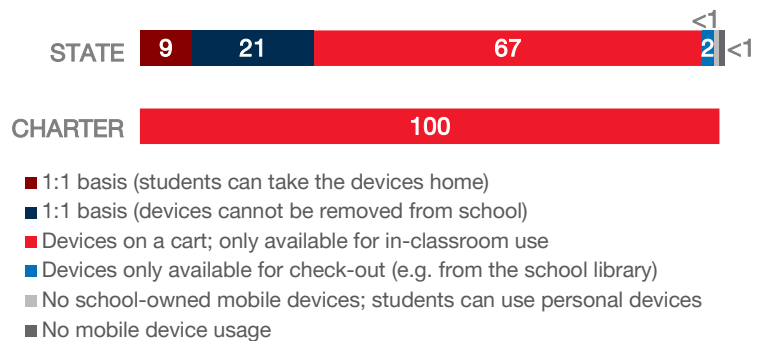


### COMPUTING DEVICES USED IN SCHOOLS

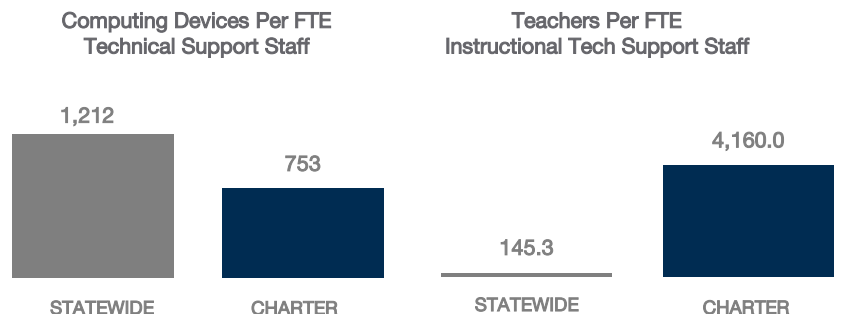
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	0	0	N/A
Laptops   Windows OS	0	1	0	0%
Desktops   Mac	0	3	0	0%
Laptops   Mac	0	26	0	0%
Chromebooks   Google	153	0	83	119%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	10	0	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



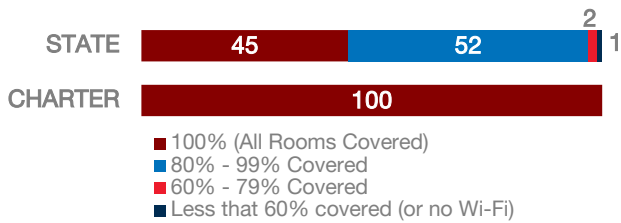
## Weber State University Charter Academy

### CHARTER FACTS

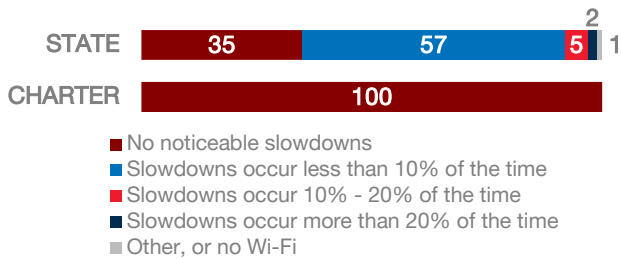
Area Population	N/A
Enrollment	33
Number of Schools	1
Urban or Rural	Urban
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

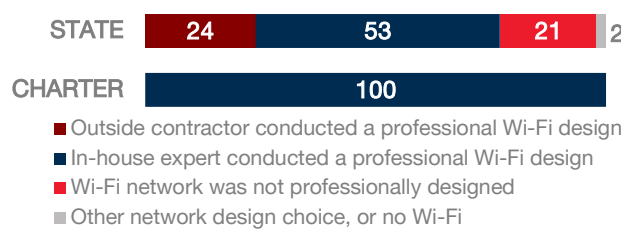
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

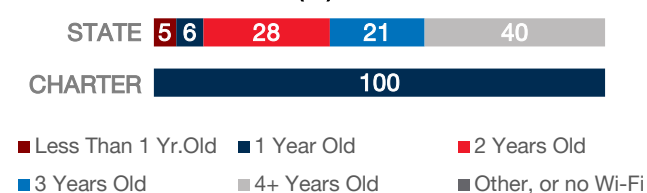


### NETWORK GEAR IN SCHOOLS

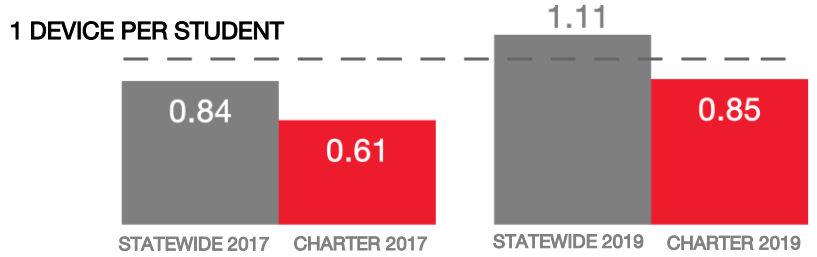
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

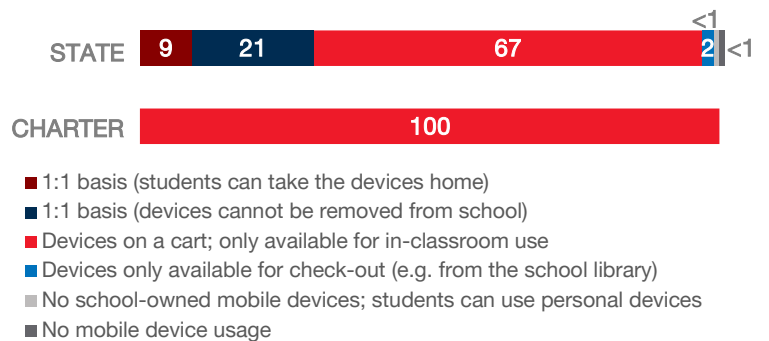


### COMPUTING DEVICES USED IN SCHOOLS

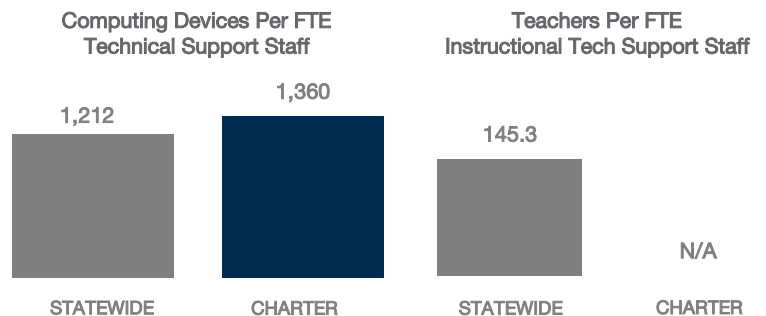
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	1	1	N/A
Laptops   Windows OS	0	0	0	N/A
Desktops   Mac	1	2	1	50%
Laptops   Mac	1	2	3	N/A
Chromebooks   Google	0	0	0	N/A
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	26	1	7	35%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



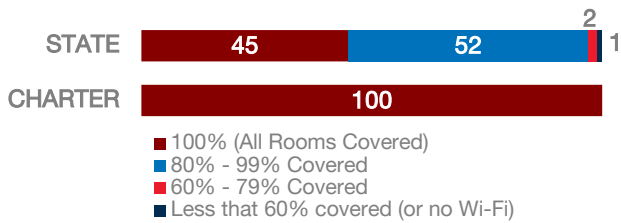
## Weilenmann School of Discovery

### CHARTER FACTS

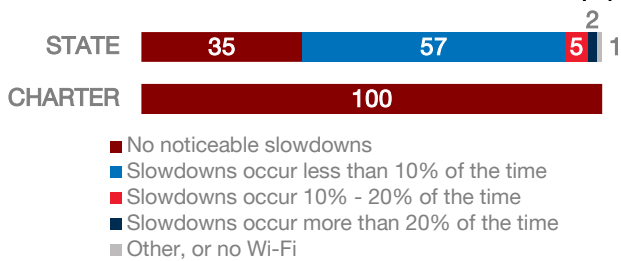
Area Population	N/A
Enrollment	563
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

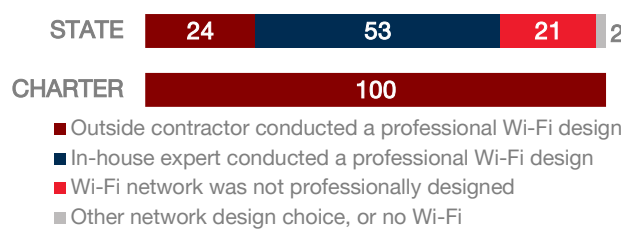
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

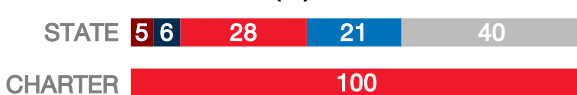


### NETWORK GEAR IN SCHOOLS

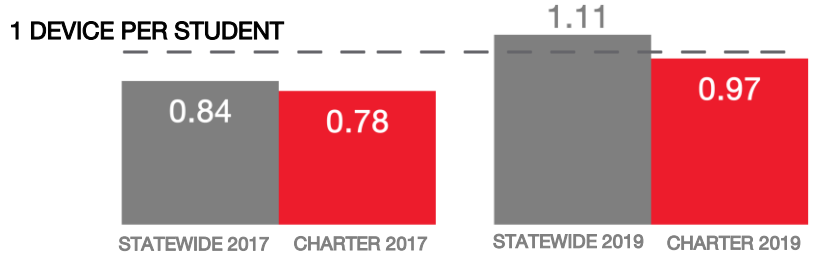
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

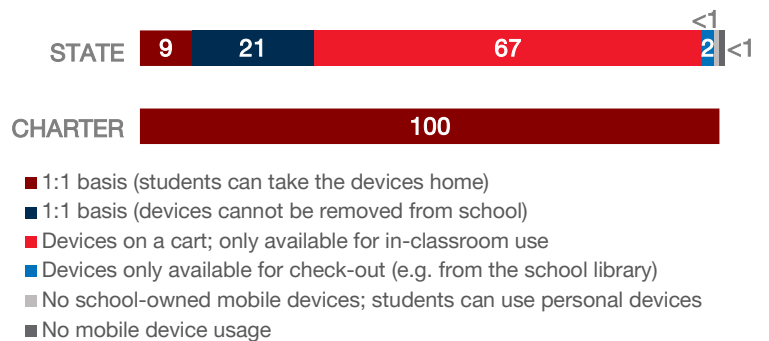


### COMPUTING DEVICES USED IN SCHOOLS

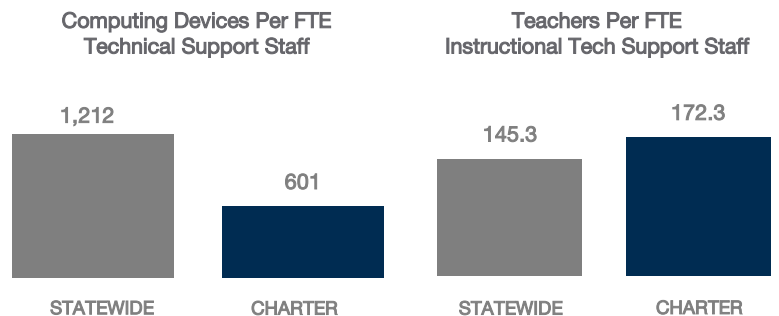
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	1	0	0%
Laptops   Windows OS	0	0	0	N/A
Desktops   Mac	0	4	0	0%
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	530	45	75	15%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	14	14	0	0%

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS



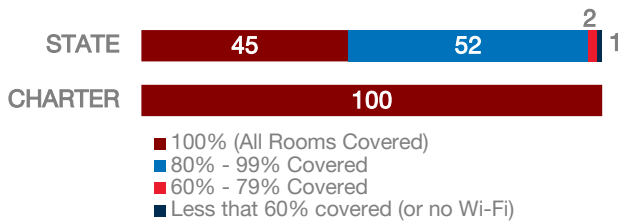
## Winter Sports School

### CHARTER FACTS

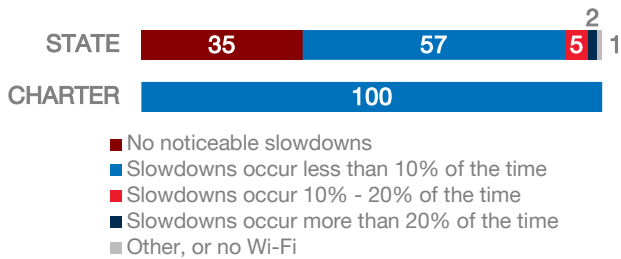
Area Population	N/A
Enrollment	114
Number of Schools	1
Urban or Rural	Rural
Median Household Income	N/A
Poverty Rate	N/A

### WI-FI NETWORKS

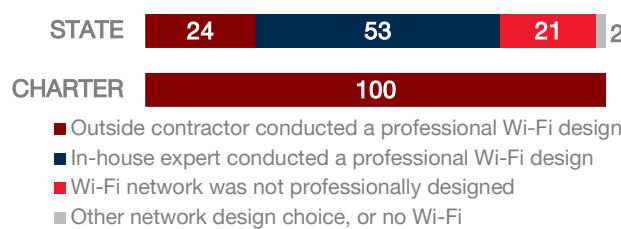
#### WI-FI COVERAGE REPORTED BY SCHOOLS (%)



#### SCHOOLS EXPERIENCING DECLINES IN WI-FI SERVICE SPEEDS DURING SCHOOLTIME (%)



#### HOW SCHOOL WI-FI NETWORKS WERE DESIGNED

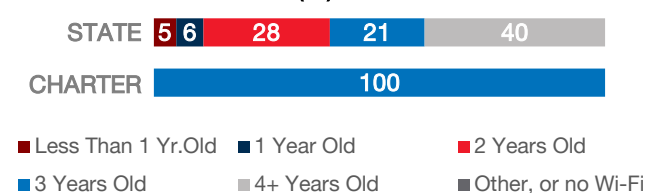


### NETWORK GEAR IN SCHOOLS

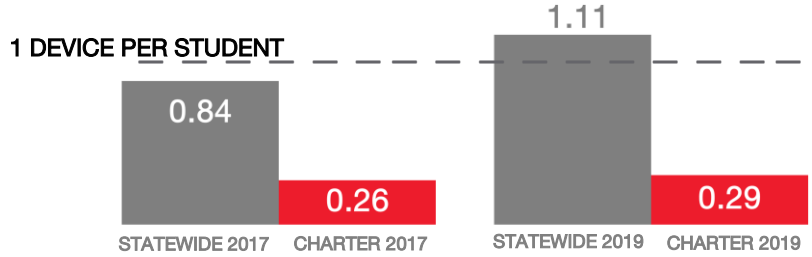
#### AGE OF WIRELESS GEAR (%)



#### AGE OF WIRED GEAR (%)



### COMPUTING DEVICES PER STUDENT

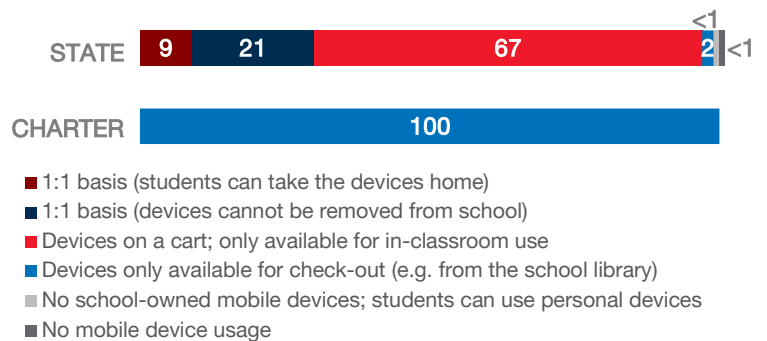


### COMPUTING DEVICES USED IN SCHOOLS

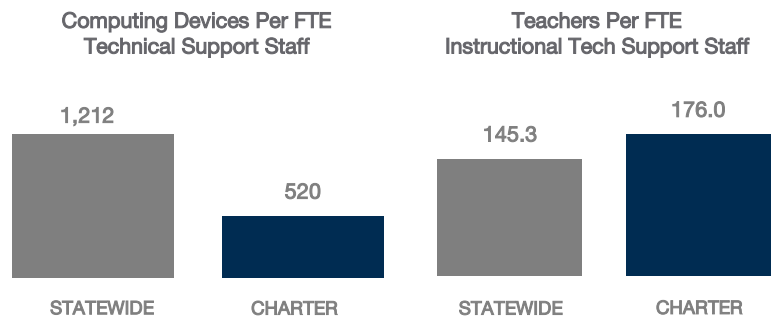
Device Type	Student Use	Teacher/Admin Use	Change in the # of Devices Since 2017	Percent Change Since 2017
Desktops   Windows OS	0	3	1	50%
Laptops   Windows OS	0	2	-3	-60%
Desktops   Mac	0	1	1	N/A
Laptops   Mac	0	0	0	N/A
Chromebooks   Google	33	0	3	10%
Tablets   Windows	0	0	0	N/A
Tablets   Android	0	0	0	N/A
Tablets   IOS	0	0	0	N/A

### MOBILE DEPLOYMENT

#### WIRELESS DEVICE POLICIES AT SCHOOLS (%)



### FULL-TIME EQUIVALENT (FTE) TECHNICAL SUPPORT STAFF IN UTAH SCHOOLS





**Appendix G:**

# News and Notables







(<https://connectednation.org/>).

# THE CHANGING CLASSROOM IN UTAH: WHY DIGITAL TEACHING MATTERS

***“I THINK LEARNING IS NOT JUST ON THE CAMPUS ANYMORE, BUT IT’S EVERYWHERE THE STUDENT GOES.”***

by Jessica Denson, Communications Director  
Connected Nation

**Beaver, UT (November 5, 2019)** – David Long, Superintendent of Beaver County Schools, remembers clearly the moment he realized just how powerful a tool technology could be for student learning.

“I was working at Logan County School District as the Director of Education and Technical Service, and it was the first day we gave out laptops to students,” he said.

“I was heading home late and stopped at McDonald’s to grab something to eat. There sat a Logan High student on break with his



ELEMENTARY STUDENTS USE THEIR DEVICES DURING CLASSES IN BEAVER COUNTY SCHOOL DISTRICT

dinner and his laptop out—and he was doing homework. He looked completely enthralled and engaged in learning. I knew then that if I did nothing else with my career, at least I helped this kid get the access he needed, and I call that a success.”

He hasn’t stopped there. Over his more than 20-year career, Superintendent Long has worked to bring technology to thousands of students. Beaver County School District recently went 1-to-1 with Chromebooks—meaning there is one device for every student.

“The access students now have to information is incredible. There are massive databases and information systems that are global in scale,” he said. “Teachers are still the key to each student’s success, but these devices empower instruction at an incredibly personal and individualized level.”

Long has only been with Beaver County School District for about six months, but he’s got big plans for expanding access.

### **From Traditional to Technological**



STUDENTS ALSO LEARN HOW TO REPAIR TECHNOLOGY

Beaver County sits in the southwest corner of Utah. It’s mostly rural and offers a combination of small-town life and industries that are agriculture- and alternative energy-centric. Smithfield Farms and Union Pacific Railroad are two of the area’s largest employers. There are also some newly developed wind and solar farms and a geothermal plant.

Reagan Williams grew up in Beaver County and now calls some of his one-time teachers colleagues. He teaches third-grade math at Belknap Elementary School and says the schools are at the center of everything.

“Everybody goes to the football games, attends plays at the high school, and takes part in the dances. It’s very much a small-town feel. It’s a traditional feeling,” Williams said. “I remember when I was in school, my teachers would stand at a chalkboard and all of us would have to copy everything down. Now, tech has changed things so much in the classroom, making it possible for students to be self-motivated and self-paced. I can also move among the students constantly rather than stand with my back to them.”

Every year, he teaches around 75 to 80 students. Virtually all third graders finish math lessons before the school year ends, but 30 to 40 percent move on to also finish the fourth-grade math program—that’s where Chromebooks can help.

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student struggling faster than ever before. We use Canvas, and I can look at the grades as they pop up and help a student immediately understand what went wrong and adjust my instruction.”

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“If we didn’t have the access, we wouldn’t meet our goals,” he said. “But because we do have access, our school is outperforming the state average for students.”



Both Williams and Fisher attribute the success the district is seeing to the training offered to each teacher. Every instructor takes lessons and can take ongoing education on how to more effectively use the technology in the classroom. Part of that includes striking the right balance between hands-on instruction and computer-based learning.

“We’re constantly looking ahead and asking ‘how can we make better use of the technology,” said Williams. “But little kids aren’t robots. The teacher will always need to take part in facilitating and instructing and guiding his or her students.”

### **Taking Stock of School Technology**

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This inventory can help districts identify gaps and point to areas that are seeing improvement. It's providing opportunities to follow successful models and to explore new ideas—and understand how the world of education may be changing.

"I think learning is not just on the campus anymore, but it's everywhere the student goes. So, I've been very interested in projects that will allow support for off-campus use of these devices," said Superintendent Long. "That includes working with the Federal Communications Commission to change some rules. The No. 1 thing myself and other administrators can do right now is petition for Erate funds to be used for more than getting bandwidth to the classroom. We need to have funding that supports mobile learning."

He points to current trends of students opting out of traditional K-12 education, choosing instead to home school or use other avenues.



A STUDENT-ATHLETE WORKS ON HOMEWORK BEFORE PRACTICE

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He adds that school districts must look beyond local resources and start trying to connect education globally—because that's how the students of today are and will continue to be connected when it comes to everything from jobs to friends.

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It's something the district's teachers also understand.

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“We live in the 21<sup>st</sup> century. We live in a digital environment,” Fisher added. “We’re trying to give the students real-world skills, and if we couldn’t give them the skill of technology, it would hamper their progress.”

**Next week we continue our month-long series “The Changing Classroom in Utah”** with a look at how one 6<sup>th</sup> grader and her teacher are leveraging technology in Weber County—a district that’s gone from chalkboards to Chromebooks in just a few years’ time.

You can follow the entire series on the UEN website by clicking here  
(<https://www.uen.org/schooltech/>).

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# Beaver County JOURNAL

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Wednesday, November 6, 2019 • Issue # 601

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Fri Nov 8		Sunny	65°/28° 0 %
Sat Nov 9		Sunny	66°/29° 0 %

MINERSVILLE WEATHER			
Wed Nov 6		Partly Cloudy	66°/24° 0 %
Thurs Nov 7		Sunny	64°/25° 0 %
Fri Nov 8		Sunny	67°/25° 0 %
Sat Nov 9		Sunny	66°/28° 0 %

MILFORD WEATHER			
Wed Nov 6		Mostly Sunny	66°/23° 0 %
Thurs Nov 7		Sunny	66°/25° 0 %
Fri Nov 8		Sunny	65°/27° 0 %
Sat Nov 9		Sunny	64°/27° 0 %

## THE CHANGING CLASSROOM IN UTAH: WHY DIGITAL TEACHING MATTERS

"I THINK LEARNING IS NOT JUST ON THE CAMPUS ANYMORE, BUT IT'S EVERYWHERE THE STUDENT GOES."

BEAVER, UT — David Long, Superintendent of Beaver County Schools, remembers clearly the moment he realized just how powerful a tool technology could be for student learning.

"I was working at Logan County School District as the Director of Education and Technical Service, and it was the first day we gave out laptops to students," he said. "I was heading home late and stopped at McDonald's to grab something to eat. There sat a Logan High student on break with his dinner and his laptop out—and he was doing homework. He looked completely enthralled and engaged in learning. I knew then that if I did nothing else with my career, at least I helped this kid get the access he needed, and I call that a success."

He hasn't stopped there. Over his more than 20-year career, Superintendent Long has worked to bring technology to thousands of students. Beaver County School District recently went 1-to-1 with Chromebooks—meaning there is one device for every student.

"The access students now have to information is incredible. There are massive databases and information systems that are global in scale," he said. "Teachers are still the key to each student's success, but these devices empower instruction at an incredibly personal and individualized level."

Long has only been with Beaver County School District for about six months, but he's got big plans for expanding access.

*From Traditional to Technological*  
Beaver County sits in the southwest corner of



Utah. It's mostly rural and offers a combination of small-town life and industries that are agriculture- and alternative energy-centric. Smithfield Farms and Union Pacific Railroad are two of the area's largest employers. There are also some newly developed wind and solar farms and a geothermal plant.

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and now calls some of his one-time teachers colleagues. He teaches third-grade math at Belknap Elementary School and says the schools are at the center of everything.

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"One of the biggest challenges for every teacher



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*All eyes are opened, or opening, to the rights of man. The general spread of the light of science has already laid open to every view the palpable truth, that the mass of mankind has not been born with saddles on their backs, nor a favored few booted and spurred, ready to ride legitimately, by the grace of God.*

—Thomas Jefferson, letter to Roger C. Weightman, June 24, 1826

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Continued from Front Page...BCSD TECHNOLOGY



2019 Beaver School Board

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COWS	48.93	38.50 - 62.00
HEIFERETTES	81.77	65.75 - 96.00
CUTTING BULLS 700 - 1050 lbs.	86.59	74.00 - 97.00
SLAUGHTER BULLS	65.99	60.00 - 70.75
CHOICE STRS 300-400#	187.87	175.00 - 230.00
CHOICE STRS 400-500#	164.99	147.50 - 200.00
CHOICE STRS 500-600#	147.35	135.00 - 158.00
CHOICE STRS 600-700#	143.61	130.00 - 151.00
CHOICE STRS 700-800#	143.30	128.00 - 147.25
CHOICE STRS 800-900#	139.05	126.00 - 146.00
CHOICE STRS 900-1000	139.79	133.00 - 144.00
CHOICE STRS 1000#	126.17	114.00 - 135.00
CHOICE HRS 200-300#	165.64	155.00 - 180.00
CHOICE HRS 300-400#	157.86	133.00 - 181.00
CHOICE HRS 400-500#	144.34	125.00 - 166.00
CHOICE HRS 500-600#	134.93	120.00 - 155.00
CHOICE HRS 600-700#	125.10	112.50 - 140.00
CHOICE HRS 700-800#	134.36	118.00 - 143.00
CHOICE HRS 800-900#	135.91	117.50 - 138.50
CHOICE HFR 900 - 1300	97.36	76.75 - 103.00

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**BEAVER COUNTY SHERIFF'S BOOKING/ARREST REPORT**  
 This report is printed as it was received from the Beaver County Sheriff's Department with no editing corrections or additions included. The report does not infer any guilt or innocence, only the name and charges of those booked during that time period.

- The following persons were booked into the Beaver County Jail between 10-24-19 and 10-30-19 on the charges of:
  - JOHN CODIE BRADSHAW of BEAVER, UT. Warrant -Of Arrest, Warrant -Of Arrest, Warrant -Of Arrest
  - ELLAN JEANETTE WORLEY of BEAVER, UT. Threat of Violence, Disorderly Conduct after warning
- The following calls were received 10-24-19 and 10-30-19 by the Beaver County Sheriff's office:
  - 2 calls for 911 Issue
  - 1 calls for Agency Assist
  - 3 calls for Animal Problem
  - 1 calls for Back Pain
  - 2 calls for Citizen Assist
  - 1 calls for Citizen Dispute
  - 1 calls for Domestic Violen
  - 1 calls for Drugs
  - 1 calls for Fire
  - 1 calls for Forgery
  - 2 calls for Found Property
  - 1 calls for Harassment
  - 1 calls for Illegal Burning
  - 1 calls for Juvenile Prob
  - 3 calls for Keep the Peace
  - 1 calls for Lockout
  - 1 calls for Mental Problem
  - 2 calls for PD Accident
  - 3 calls for PI Accident
  - 1 calls for Suspicious
  - 1 calls for Theft
  - 1 calls for Traffic Hazard
  - 1 calls for Transfer
  - 1 calls for Trespassing
  - 1 calls for Utility Problem
  - 2 calls for VIN Inspection
  - 1 calls for Warrant
  - 2 calls for Welfare Check

There are currently 357 inmates housed at the Beaver County jail.



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# THE CHANGING CLASSROOM IN UTAH: TECHNOLOGY IN WEBER SCHOOL DISTRICT – FROM CHALKBOARDS TO CHROMEBOOKS

**Ogden, UT (November 12, 2019)**– Alyssa Boydston is your typical sixth-grader. She attends Lomond View Elementary School located in Pleasant View and is really into sports. Boydston wants to be either a soccer player or engineer when she grows up, and she’s super excited about the upcoming sixth-grade dance—a 1950s-themed event.

Boydston also has never known school without technology in the classroom.

“It’s always been there, but this year we each got our own Chromebooks, so that’s a new thing,” she said. “Before, we’d only get them once or twice a week and only for a certain period of time and had to share them with others.”

Boydston is one of Alan Rhees’ star students. He teaches sixth grade at the very school he attended as a child.

“That was 34 years ago, when we did everything with paper and a pencil, and our teachers used chalk and chalkboards,” Rhees said. “Now, we don’t even have chalkboards in our classrooms at Lomond View.”



The school uses smart boards that are already being phased out to make way for smart monitors—essentially touch-screen televisions with no projectors—and the entire district is moving to what’s called 1-to-1 with Chromebooks. That simply means every student would have their own dedicated device.

Lynn Raymond is Weber County School District’s Director of Technology. The district offices are located in Ogden, where Raymond oversees efforts to move schools into this new territory.

“When I came into the district, the computers were basically centered around the teacher having the tech and then using that technology to engage students in terms of PowerPoints, presentations, those types of things,” he said. “That’s now changed dramatically. The tech is now integrated within student learning. Students are also able to use it to individualize their instruction. They can work from home and access resources to continue their education even after school hours.”

Raymond taught human physiology and anatomy before moving into administrative roles. His experience has helped him understand how to integrate new tech into the classroom setting.



“We also looked at other districts that were having success or failure,” he said. “We quickly learned that you can’t just give the students Chromebooks, but you have to also provide teachers support. So, six months before we started distributing Chromebooks, tech services worked with the curriculum department to prepare and train teachers.”

The Utah Education and Telehealth Network (UETN), in partnership with the nonprofit Connected Nation, is in the midst of doing an inventory of technology within all of Utah’s public and charter schools—including Weber County.

“UETN has been phenomenal in working with us on getting our schools prepared so every student has a device that’s monitored by our system, even when they are off campus,” Raymond said. “Essentially, our partnership with UETN has helped us work through the

challenges and opportunities of expanding technology. At the same time, the UETN inventory gives us an important snapshot of our district and how it compares to others—which is especially important for parents. They’ll be able to see what the classroom looks like and what type of learning their children will be involved in here.”

In 2015, UETN began tracking how technology is used in the classroom and the access teachers and students have to digital materials, devices and platforms. Data from another inventory was released in 2018.

“Last year, following our second statewide inventory, we learned the number of classrooms connected through digital teaching and learning had risen thanks to increased distribution of computer devices and newer wireless gear,” said Ray Timothy, CEO of UETN. “However, we also found that more work was needed to connect every student to key technologies that will prepare them for an increasingly digital world.”

That’s made it possible for students and teachers to explore learning in new and even more effective ways.

“Tomorrow, we get to actually go inside Alcatraz on a VR [virtual reality] field trip,” said Rhees. “We’re also exploring new methods of learning using images and group reviews. One of the best things about the devices is that I know instantly how a student is doing on an assignment or test and can provide immediate feedback. It makes learning more interactive and effective.”

Lomond View Elementary students typically spend about a third of the school day using the devices. They’ll complete digital modules in math or language arts or other subjects. They also work on improving their keyboarding skills and doing group lessons.

“It feels like we’re a team, but rather than a race to win, it’s a race to get the best answer,” said sixth-grader Boydston. “I think it’s really fun having your own Chromebook because it’s more tech in the classroom and stuff, and it’s easier than writing everything down on paper. Plus, if we have spare time, we get to go to Nearpod. I like to work on new math problems.”



Nearpod is a student-engagement platform that schools can leverage. It provides ready-to-run, interactive lessons for grades K-12. They include multiple-choice questions and problems that can be solved by drawing out or diagramming an answer.

It's just one of many ways technology is transforming instruction in classrooms across Utah.

"I think tech is going to change even more than we realize," Rhees said. "Right now, we still have some limitations on access or how we can use the devices. I think augmented reality—where students can actually see a place through headsets—are going to enter our classrooms more and more. We'll still have textbooks and interact with students one-on-one because it will always be important to engage in that way, but there will eventually be a new balance between technology and traditional teaching."



Raymond agrees. As he and his staff look toward the future, they already see a horizon that's limitless.

"We're already working with 3D printers and have elementary students actually designing and working it," he said. "Drones, artificial intelligence, augmented reality—there's so much ahead of us. Now, we're working on writing a new program with Google to track technology in a different way than ever before so we can see how tech is being used by teachers and students and look to what's next."

**Next week we continue our month-long series "The Changing Classroom in Utah."** We'll sit down with Alpine School District's Administrator of Technology Services who explains how the schools of today must be vastly different than even just 10 years ago and what that means for teachers and students.

Meanwhile, check out last week's story from [Beaver County](#)

(<https://connectednation.org/blog/2019/11/04/the-changing-classroom-in-utah-why-digital-teaching-matters/>).

[Why School Technology Inventory Matters](https://www.uen.org/schooltech/) (<https://www.uen.org/schooltech/>)

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(<https://connectednation.org/>).

# THE CHANGING CLASSROOM IN UTAH: TECHNOLOGY'S ROLE IN ALPINE SCHOOL DISTRICT

by Jessica Denson, Communications Director  
Connected Nation

**American Fork, UT (November 19, 2019) –**

According to Blaine Edman, we're living in a vastly different world than just 10 or 20 years ago—and it's impacting how Utah school districts approach education.

“Technology now plays such a vital and important role in the world, so we need to teach students how to use tech while being aware that education is about more than just tech,” said Edman, Administrator of Technology Services, Alpine School District. “We’re teaching students what they should expect as they enter society and the workplace—helping them create, collaborate, communicate, and think critically while leveraging technology.”



STUDENTS WORK ON COMPUTERS IN CLASS

The Utah Education and Telehealth Network (UETN), in partnership with the nonprofit Connected Nation, is in the midst of doing an inventory of technology within Utah's public and charter schools. Alpine School District is taking part in that inventory. Edman calls it “critically important” for administrators to understand the digital landscape of the district.



BLAINE EDMAN, ADMINISTRATOR OF  
TECHNOLOGY SERVICES, ALPINE SCHOOL  
DISTRICT

“We do see there are big differences between kids who have access to technology and those who don’t,” he said. “But it’s even more complex than that. It’s not just a question of do they have internet and devices at home, but also what kind of environment are they in and what are they doing with the technology. All of these are things we can track and monitor.”

In 2015, UETN began tracking how technology is used in the classroom and the access teachers and students have to digital materials, devices, and platforms. Data from another inventory was released in 2018.

“Last year, following our second statewide inventory, we learned the number of classrooms connected through digital teaching and learning had risen thanks to increased distribution of computer devices and newer wireless gear,” said Ray Timothy, CEO of UETN. “However, we also found that more work was needed to connect every student to key technologies that will prepare them for an increasingly digital world.”

Matt Johnson is the Director of Technology Infrastructure for the Alpine School District. He oversees the district’s networks within the schools and keeps track of network traffic, resources and security.

“In my role, I work with staff to provide the schools with connectivity to the UETN network,” Johnson said. “They provide access and connectivity to the internet resources for the school district. They also have the capacity and resources to support educational entities at a larger scale.”

Johnson is also responsible for maintaining technology infrastructure across the district.

“So, essentially, as I look at the inventory process, we are identifying the number of devices in each of the schools, what the network bandwidth is in each of the schools, and where wireless access points may need to be added or augmented to ensure that we have connectivity throughout the schools,” Johnson explained.

Every district sets up how it approaches technology differently. Alpine Schools has developed another department called “Innovative Learning.” This department focuses on how to best use the technology in the classroom. The district also provides training and ongoing coaching for teachers so they’re up to speed on the latest advancements.

In the last four years, the district has also gone from about 30,000 to 90,000 internet-enabled devices. That means there is a device for every student. But, Edman again emphasizes that it’s not just having enough computers or laptops that matters—it’s leveraging the tools in smart ways to help students as best they can.

“I really want parents and the community to understand that there is a great potential for how we can have students use technology to prepare them for their future,” Edman added. “But we also know there are risks and difficulties and problems that sometimes arrive. I think in all schools there are a ton of dedicated people there trying to provide the right tools for kids while keeping them safe, healthy, and happy in the process.”

**Next week we continue our month-long series “The Changing Classroom in Utah”** with a look inside Juab School District—a district that is doing something very different with technology through its one-of-kind Innovation Center.

**Related Articles:**

[Beaver County School District – Why Digital Teaching Matters](#)

(<https://connectednation.org/blog/2019/11/04/the-changing-classroom-in-utah-why-digital-teaching-matters/>).

[Technology in Weber School District – From Chalkboard to Chromebooks](#)

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# THE CHANGING CLASSROOM IN UTAH: INNOVATING TECHNOLOGY IN JUAB SCHOOL DISTRICT

by Jessica Denson, Communications Director  
Connected Nation

**Nephi, UT (November 26, 2019)** – Technology is not just part of the classroom in Juab School District. It’s integrated into every aspect of learning.

“We’re giving each student a voice and choice in their own learning,” said Ken Rowley, Principal, Juab Junior High School. “Each student sets his or her own personal goals at the start of the year. Because of that approach, they’re incredibly engaged as they try to reach their goals. When we do that, it becomes personal and they own it.”

Rowley attended school about an hour away in the Nebo School District, graduating in 1985. He later taught at Juab High School for 11 years and 13 years ago became principal for the junior high. Rowley says it struck him that the classrooms didn’t look much different than when he was a student.



STUDENTS USE DEVICES FOR LESSONS

“Kids would come into the classroom, turn off their devices, and sit there like it was 20 years ago,” he said. “But as soon as they’d leave, they’d power back up, so in a way, it was like learning just stopped once they went to class. So we started to look at integrating the technology to *what* students enjoyed learning and *how* they enjoyed learning.”

### **The Future is Now**

In 2019, the entire district is now one-to-one on iPads for 5<sup>th</sup>-12<sup>th</sup> grades—meaning every student has a device they can take home to do homework and other school projects. There are also 100s of Chromebooks available for elementary students, and most classrooms have smart boards or Apple TVs and sound systems to assist teachers with instruction.



“We provide all the items to teachers and take time to train them on the technology so they can be even more effective in the classroom,” said Tony Sperry, Technology Director, Juab School District. “This technology can be life-changing for our students. Imagine if they did not have access to it? It impacts everything from applying for colleges to being able to find work. Kids need to develop their technology and computer skills just to take part and compete.”

Sperry also grew up in the area, which he calls a mix of a farming and bedroom community. Located about 45 minutes from Provo, the state’s third largest city, he says many people commute so they can enjoy the quiet, rural life. He graduated from Juab High School and 37 years ago began teaching for the district.

“I think it was the early 90’s that we got computers for all of our teachers. Then shortly after we added our first electronic grade book,” said Sperry. “Then, as things progressed, the internet started to come into play, and we started networking everything. Because I was excited about the future of technology in the classroom, I just sort of fell into the role of Technology Director about 25 years ago and now we just keep looking at ways to innovate for our students and teachers.”

He credits the support of the superintendent and school board for making it possible to do more in the classrooms. That includes developing “The Innovation Center,” which just opened.





STUDENTS THROUGHOUT ALPINE SCHOOL DISTRICT USE THEIR DEVICES BOTH INSIDE AND OUTSIDE THE CLASSROOM FOR THEIR LESSONS

“We remodeled a school to include the center,” he explained. “It has big open classrooms and all the latest technology that we can get our hands on. We’re just starting to figure out how to bring students from elementary and junior high to do some high-tech projects like robotics and 3D printing. It’s important for us to bring new things so kids can explore and learn and discover.”

The district also plans to look at how high school students can start utilizing The Innovation Center. It’s that kind of forward-thinking that Principal Rowley says is a must for not only the district but all of Utah’s schools.

“Would I send someone out to build a house without the right tools?” he said. “We must give students what they need to do well. They don’t want to be lectured to all day long. They want—and need—learning to be interactive with and even from their peers. I think technology helps us personalize the learning that goes on in each one of our student’s lives. It means we can meet their needs a whole lot easier and more personally than we’ve ever been able to do before.”

It’s why taking inventory of technology in the Juab School District is so important. Right now, the Utah Education and Telehealth Network (UETN), in partnership with the nonprofit Connected Nation, is in the midst of doing a tech inventory within all of Utah’s public and charter schools.

In 2015, UETN began tracking how technology is used in the classroom and the access teachers and students have to digital materials, devices, and platforms. Data from another inventory was released in 2018.

“Last year, following our second statewide inventory, we learned the number of classrooms connected through digital teaching and learning had risen thanks to increased distribution of computer devices and newer wireless gear,” said Ray Timothy, CEO, UETN. “However, we also found that more work was needed to connect every student to key technologies that will prepare them for an increasingly digital world.”



The inventory can help districts identify gaps and point to areas that are seeing improvement.

“It’s so important to know where you are,” said Sperry. “You’ve also got to know where you’re going. For instance, if you’re dealing with an old computer lab, the inventory helps you identify when it’s time to refresh it or replace the digital tools with newer tools.”



KEN ROWLEY, PRINCIPAL, JUAB JUNIOR HIGH SCHOOL HELPS STUDENTS WITH THEIR MATH ASSIGNMENT

The data gathered during the inventory is also providing opportunities to follow successful models and to explore new ideas—and understand how the world of education may be changing.



STUDENTS USE THEIR DEVICES FOR LESSONS

### **The Challenges and Opportunities Ahead**

As we move into the next decade, both Sperry and Rowley see technology as something that will present challenges and opportunities for Juab School District.

“Our district works pretty hard for computer science curriculum,” said Sperry. “So in the last few years, we started doing things a little differently and started doing some training and offering specialized classes. That includes basic computer programming lessons at even the elementary level. There’s even more offered at the junior and high school levels,

and we need to keep improving this every year.”

One challenge is the lack of internet access once students take devices home. According to Rowley, about a third of his students don’t have access to the internet once they leave school.

“It would be nice if we could find more ways to get Wi-Fi into all homes,” he said. “Right now, I see a lot of students in the Wendy’s parking lot just to get access.”

The principal also points out the importance of parents being educated on how to use the devices students take home—and the dangers that the internet can sometimes pose. Rowley says everyone working with students must remember that none of the above can be “one-size-fits-all.”

“Tech is changing so fast, so I’m not married to one device. Different kids may learn better with different devices,” he said. “I think it should be internet-based rather than simply device-based, but no matter what we as educators do, I’d never send a student to go learn without technology involved—to do so limits and hinders their progress.”

**Next week we wrap up our month-long series “The Changing Classroom in Utah”** with a comprehensive look at the four school districts profiled in the series.

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# THE CHANGING CLASSROOM IN UTAH: THE IMPORTANCE OF TRACKING TECHNOLOGY IN OUR SCHOOLS

by Jessica Denson, Communications Director

**Salt Lake City, UT (December 3, 2019)** – For the last two months, Utah school administrators, technology directors, teachers, and other key staff members have been taking part in an effort to inventory technology in both charter and public schools across the state.

It may sound like a routine part of what school districts must do, but the data gleaned from this work can impact teaching and learning in classrooms for years to come.

“Last year, following our second statewide inventory, we learned the number of classrooms connected through digital teaching and learning had risen thanks to increased distribution of computer devices and newer wireless gear,” said Ray Timothy, CEO, Utah Education and Telehealth Network (UETN). “However, we also found that more work was needed to connect every student to key technologies that will prepare them for an increasingly digital world. This inventory can help us identify gaps and point to areas where we’re seeing improvements—providing opportunities to learn from our successes.”



STUDENTS WORK ON THEIR COMPUTER DEVICES IN CLASS AT LOMOND VIEW ELEMENTARY SCHOOL

UETN, in partnership with Connected Nation (CN), is overseeing the technology inventory. The first—completed in 2015—provided initial details on how technology is used in Utah classrooms and the access teachers and students have to digital materials, devices, and platforms.

“Technology now plays such a vital and important role in the world, so we need to teach students how to use tech while being aware that education is about more than just tech,” said Blaine Edman, Administrator of Technology Services, Alpine School District. “We do see there are big differences between kids who have access to technology and those who don’t. But it’s even more complex than that. It’s not just a question of do they have internet and devices at home, but also what kind of environment are they in and what are they doing with the technology? All of these are things we can now track and monitor.”

The process to do so is only getting better. In 2018, UETN and CN were able to capture data from more than 1,000 schools that serve more than 665,000 students across the state during the inventory.

The resulting data set contained more than 100,000 new points of data on the use of technology in Utah K-12 schools—including digital curricula materials, platforms used, and the number and nature of devices used in classrooms. School districts can leverage that information to make impactful changes in the classroom.

## The Digital Classroom



A STUDENT-ATHLETE IN BEAVER COUNTY SCHOOL DISTRICT WORKS ON HOMEWORK BEFORE PRACTICE

Lynn Raymond is Weber County School District’s Director of Technology. The district offices are located in Ogden, where Raymond oversees work to expand technology in the schools—and the approach for how it’s used.

“When I came into the district, the computers were basically centered around the teacher having the tech and then using that technology to engage students in terms of PowerPoints, presentations, those types of things,” he said. “That’s now changed dramatically. The tech is now integrated within



student learning. Students are also able to use it to individualize their instruction. They can work from home and access resources to continue their education even after school hours.”

Raymond says there can be a learning curve as technology is integrated into classrooms and new technology emerges—knowing what has worked elsewhere can help.

“We have looked at other districts that were having success or failure,” he said. “We quickly learned that you can’t just give the students Chromebooks, but you have to also provide teachers support. So six months before we started distributing Chromebooks, tech services worked with the curriculum department to prepare and train teachers.”

Alyssa Boydston is a sixth-grader at Lomond View Elementary School in Weber County School District where Raymond works. She has never known school without technology in the classroom.

“It’s always been there, but this year we each got our own Chromebooks, so that’s a new thing,” she said. “It’s easier than writing everything down on paper. We can also learn in different ways, multiple choice, short answer, or even draw out different problems and work them out together as a class. Usually we’re just trying to get the best answer and excel at a subject rather than it being like a race to win. We work together and, if we have spare time, we get to go to Nearpod. I like to work on new math problems.”



ALYSSA BOYDSTON, A 6TH GRADER AT LOMOND VIEW ELEMENTARY SCHOOL, AND HER TEACHER ALAN RHEES

Nearpod is a student-engagement platform that schools can leverage. It provides ready-to-run, interactive lessons for grades K-12. Compare this experience to that of her teacher, Alan Rhees, and it’s clear Utah’s schools must stay ahead of technology.

“I attended the same school 34 years ago, when we did everything with paper and a pencil, and our teachers used chalk and chalkboards,” said Rhees. “Now, we don’t

even have chalkboards in our classrooms at Lomond View. We use smart boards or smart monitors and my class is even able to take VR [virtual reality] field trips. It all makes learning more interactive and more effective.”

Reagan Williams agrees. The third-grade math teacher at Belknap Elementary School in Beaver County teaches around 75 to 80 students every year. Virtually all third-graders finish math lessons before the school year ends, and another 30 to 40 percent are able to move on to even more complicated math programs—that’s where Chromebooks can help.

“With these devices, I can move them onto fourth-grade studies; others go even further,” Williams said. “At the same time, it allows me to immediately, in real time, see who is struggling and give them the extra support they need—so every student is truly learning at his or her own level.”

Ryan Fisher teaches both social studies and Career and Technical Education (CTE) Classes, such as welding and woodshop, at Milford High School in Beaver County. He says leveraging the internet and computers makes it possible for teachers to better meet the needs of all students.

“One of the biggest challenges for every teacher is how to help advanced learners, because there are not enough resources available for them,” Fisher said.

“Technology has made it possible to go deeper with their education and access programs and resources to allow them to continue learning. On the other end of the spectrum, you can intervene with a student struggling faster than ever before.

We use Canvas, and I can look at the grades as they pop up and help a student immediately understand what went wrong and adjust my instruction.”

That ability for personalization is something teachers and administrators emphasize in the Juab School District.



KEN ROWLEY, PRINCIPAL, JUAB JUNIOR HIGH SCHOOL HELPS STUDENTS WITH THEIR MATH ASSIGNMENT



“We’re giving each student a voice and choice in their own learning,” said Ken Rowley, Principal, Juab Junior High School. “Each student sets his or her own personal goals at the start of the year. Because of that approach, they’re incredibly engaged as they try to reach their goals. When we do that it becomes personal and they own it.”

Juab School District recently went one-to-one on iPads for fifth through 12<sup>th</sup> grades—meaning every student has a device they can take home to do homework and other school projects. There are also hundreds of Chromebooks available for elementary students, and most classrooms have smart boards or Apple TVs and sound systems to assist teachers with instruction.

“We provide all the items to teachers and take time to train them on the technology so they can be even more effective in the classroom,” said Tony Sperry, Technology Director, Juab School District. “This technology can be life-changing for our students. Imagine if they did not have access to it. It impacts everything from applying for colleges to being able to find work. Kids need to develop their technology and computer skills just to take part and compete.”

So what’s next for technology in Utah’s schools? That depends on how school districts address some of the challenges teachers and administrators say they’re seeing.

### **We’re Only Limited by Our Imagination....and Student Access**



STUDENTS ALSO LEARN HOW TO REPAIR TECHNOLOGY IN BEAVER COUNTY SCHOOL DISTRICT

A big challenge is lack of internet access once students take devices home. According to Rowley, the Juab Junior High School Principal, about one-third of his students don’t have access to the internet once they leave school.

“It would be nice if we could find more ways to get Wi-Fi into all homes,” he said. “Right now, I see a lot of students in the Wendy’s parking lot just to get access.”

Connecting all people to broadband (high-speed internet) is part of Connected Nation’s mission and why the nonprofit continues to partner with UETN to

help track technology in Utah’s schools.

“As a nonprofit, we have worked for nearly two decades to find and implement innovative solutions to expand access to broadband and its related technologies to more families and communities,” said Tom Ferree, Chairman and CEO, CN. “Connecting our schools and, ultimately, more students is a critical part of our mission. Children must have the opportunity to learn how to leverage technology for careers, education, healthcare, and more.”

The technology inventory is a proactive step to identify ways to help students and teachers.

“We understand it’s important to continue to track our progress,” said Ray Timothy of UETN. “Connected Nation has shown us it can help facilitate this research and support our teachers and administrators. We have had 100 percent participation in the past two statewide technology inventories—proving that Utah’s school leaders understand how important it is for us to identify where we are doing well and what we must do to better serve our students.”

David Long, Superintendent for the Beaver County School District, agrees the inventory is critical and adds that school districts must look beyond local resources and start trying to connect education globally.

“I think learning is not just on the campus anymore, but it’s everywhere the student goes. So I’ve been very interested in projects that will allow support for off-campus use of these devices,” said Long. “That includes working with the Federal Communications Commission to change some rules. The No. 1 thing myself and other administrators can do right now is petition for Erate funds to be used for more than getting bandwidth to the classroom. We need to have funding that supports mobile learning.”

Rowley says he would also like to see a shift in how technology is viewed when it comes to student learning.

“Tech is changing so fast, so I’m not married to one device. Different kids may learn better with different devices,” he said. “I think it should be internet-based rather than simply device-based, but no matter what we as educators do, I’d never send a student to go learn without technology involved—to do so limits and hinders their progress.”

It’s a statement that teachers across Utah are echoing: Without technology, our students will fall behind.

“I think tech is going to change even more than we realize,” said Rhees. “Right now, we still have some limitations on access or how we can use the devices. I think augmented reality—where students can actually see a place through headsets—are going to enter our classrooms more and more. We’ll still have textbooks and interact with students one-on-one because it will always be important to engage in that way, but there will eventually be a new balance between technology and traditional teaching.”

“If we didn’t have the ability to offer them tech, their opportunities would be much more limited, especially in rural areas,” said Williams. “You know, we don’t have AP classes, but we can offer it through colleges using the technology.”

“We live in the 21<sup>st</sup> century. We live in a digital environment,” Fisher added. “We’re trying to give the students real-world skills, and if we couldn’t give them the skill of technology, it would hamper their progress.”

The technology inventory is scheduled to be completed on Friday, Nov. 22. A public report is set to be issued in late December 2019.

You can read each article in our November series on technology in Utah classrooms called “The Changing Classroom in Utah” by clicking on the links below.

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STUDENTS USE DEVICES FOR LESSONS IN ALPINE SCHOOL DISTRICT

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