TUSD

Tucson Unified School District

MULTI-YEAR TECHNOLOGY PLAN

IX. FACILITIES AND TECHNOLOGY

A. Technology and Technology Conditions

1. As part of the Unitary Status Plan in 2013 the District developed and continues to us a Technology Conditions Index ("TCI"), which rates technology and technology conditions in schools along multiple technological dimensions and provides a composite score for each school. The TCI shall include, at minimum, the following: (i) student access to computers and other learning devices (*e.g.*, smart boards); the location of computers and learning devices (lab or classroom or both); (ii) availability of wireless and broadband Internet in a school; (iii) availability of research-based educational software or courseware; and (iv) teacher proficiency in facilitating student learning with technology.

2. The District continues to assess the technology in each school biannually using the TCI.

3. Based on the results of its assessment using the TCI, the District updates the multi-year Technology Plan as needed and providing for enhancements and improvements to the District's technology, with priority given to basic maintenance and required repairs and to Racially Concentrated Schools that score below the District average on the TCI.

4. The District continues to provide professional development for all classroom personnel, with training to support the use of computers, smart boards and most current and relevant educational software in the classroom setting.

5. Reporting - The District shall provide, as part of its Annual Report:

   a. Copies of the amended FCI, ESS and TCI;
   b. A summary of the results of the FCI, ESS, and TCI analyses conducted over the previous year;
   c. A report on the number and employment status (*e.g.*, full-time, part-time) of facility support staff at each school(*e.g.*, custodians, maintenance and landscape staff), and the formula for assigning such support;
   d. A copy of the multi-year facilities plan and multi-year technology plan, as modified and updated each year and a summary of the actions taken during that year pursuant to such plans.

B.   Technology Device Inventory

The inventory of equipment continues to be compiled by the Technology Service's Systems Installation Coordinator and the field technician team at each of the 89 campuses by manually counting and recording the equipment into spreadsheets. In addition, the inventory system Destiny Web is used to record the devices issued to students as part of the one-to-one (1:1) student device program. There are continuous inventory updates throughout the year. The data includes a device type, model name, district asset number, serial number, room description, purchase order number and purchase date.

To ensure data integrity, a verification process was applied. The data is verified by taking out and/or resolving duplicates, resolving misspelling of model names and/or descriptions and categorizing room identifiers into classroom or lab. The data is then sorted by school, room and device type. Upon completion, the data is loaded into the TCI application.

C.   Software and Applications

In 2023-24, teachers completed a survey to confirm software and applications used in their classrooms and the frequency of use. Most software and applications are cloud or web based and are accessible via Single Sign On (SSO) with District credentials.

D.   Technology Connectivity

All campuses have campus wide wired and wireless coverage and all campuses have the same fiber optics inter-connectivity between schools and sites via the Wide Area Network (WAN), and wired and wireless connectivity within schools and sites via Local Area Network (LAN) bandwidth. All campuses have the same level of connectivity to the internet (central internet line). This would be a wash in the TCI as all schools would get the same score.

E.   TCI Scoring for Hardware /Software Inventory

The TCI utilizes a rating scale of 0 - 5 to establish the condition of technology. The following provides an overview of the ranking standards:

Excellent Condition = 5
Technology rated at 5 is new or equivalent to today's new technology.

The hardware is the latest offered by the manufacturer, with the latest available firmware updates. It is fully compatible with any anticipated upgrades to TUSD technology and network environment. All accessories are present and in new condition. The newest versions of the software are installed, with all available updates. Every aspect is completely safe and ergonomically ideal. The technology fully supports and enhances the educational mission.

Good Condition = 4
Technology rated at 4 has been properly maintained and updated in better-than- average condition. The hardware is under warranty, within the manufacturer's current life cycle, and fully compatible with the current TUSD technology and network environment. Accessories are available and in good condition. The software has all available updates installed. Every aspect is safe and ergonomic. The technology supports and enhances the educational mission.

Acceptable Condition = 3
Technology rated at 3 has had proper preventative maintenance and attention to work orders keeps it in acceptable condition. The hardware is compatible with essential TUSD technology and network environment. It is supportable, with replacement parts available from the manufacturer. Accessories are available. The software works and is relevant. Any safety and/or ergonomic issues are very minor. The technology supports the educational mission.

Fair Condition = 2
Technology rated at 2 is usable; however, it is at the end of its life. The hardware may have some incompatibilities with the TUSD technology and network environment. It is supportable but may require third-party replacement parts after the warranty expires. Accessories are missing or in short supply. The software may have some incompatibilities and may not be relevant in today's market. Any safety and/or ergonomic issues are moderate and can be worked around. The technology has minimal impact on the educational mission.

Poor Condition = 1
Technology rated at 1 has not been maintained or has aged so that replacement should be considered. The hardware and software are incompatible and irrelevant in today's market. Hardware parts are expensive or not available at all. Accessories are missing. Software updates are not

available. Significant safety and/or ergonomic issues may exist, but can still be worked around. The technology presents challenges to accomplishing the educational mission.

Broken or Unsafe = 0
Technology rated at 0 does not function, is unsafe, and/or is ergonomically unacceptable. Repair/workaround is not possible. The technology prevents the educational mission.

F. **Instructional Technology and Teacher Proficiency**

1. **Instructional Technology**

The Instructional Technology department provides training and instruction to teachers to support the 1 to 1 computer initiative and utilize various applications, common educational technology devices and new educational technologies and cutting-edge technology trends. Current standard technology found in classrooms include the following:

- Document Camera

- Interactive Panel: Promethean or Newline

- Teacher laptop and in some classrooms a monitor

- Students each have access to a device depending on the grade or school, the devices used in the district include iPads, Chromebooks or Windows computers. In elementary schools, a class set of devices are usually stored in the classroom for student use. In middle and high schools, students are checked out a device for their use throughout the day and are allowed to take the device home for completing homework

- Assistive technology is provided to qualifying students on an as needed basis by the Exceptional Education department

- Printer-as students can complete much of their classwork online, the district is actively reducing the number of printers in schools as part of the Paper-Reduction Program

- Internet/wi-fi, Calculators ,and Headphones

2. **Teacher Proficiency**

The Instructional Technology department is using updated data collection tools, which allows TUSD to collect more relevant, meaningful data based on the educational technologies found in all classrooms in TUSD and platforms commonly utilized in classrooms. This data provides a measurement of teacher instructional technology proficiency. By using updated data collection tools, the Instructional Technology team can tailor training and support to the specific needs of TUSD educators, thus ensuring a well-rounded and targeted approach to professional development.

The two key Data Collection Tools Used within the Instructional Technology Department are: **Title I Walk Though Observation Tool** and **Teacher Technology Use Survey Questions**

a. **Title I Walk Though Observation Tool**

The Title 1 Walk Through Observation tool, an assessment used by the Title I Department, was developed in conjunction with the Instructional Technology Department. It measured educational technology use in individual classes during the observation day. The data provided the Instructional Technology department with information about individual schools, thus allowing for a targeted approach for working with administrators to increase the effective use of educational technology in the schools with lower percentages of use of educational technology in the classrooms.

b. **Teacher Technology Use Survey**

The survey provides the Instructional Technology Department with reliable data identifying the frequency of use by teachers with online platforms and educational technology devices. This new tool helps to ensure that instructional methods and support systems and training provided by school Admin staff and members of the Instructional Technology Department are aligned with actual needs. The data are shared with other district departments such as the Curriculum and Instruction Department and the Assessment and Evaluation department to assist them in identifying needs for training. The data are utilized by the Instructional Technology staff to identify platform use and needs for training.